



MASTER MODEL NUMBER SELECTION GUIDE

PCI RECEIVER BOARDS WITH FM DEMOD; SINGLE CHANNEL, where X is frequency band

LS-25-PAX	Single Band PCM/FM PCI Receiver with 4 IF BW and 4 Video
LS-25-PBX	Single Band PCM/FM PCI Receiver with 12 IF BW and 12 Video
LS-25-PAXX	Dual-Band PCM/FM PCI Receiver with 4 IF BW and 4 Video
LS-25-PBXX	Dual-Band PCM/FM PCI Receiver with 12 IF BW and 12 Video
LS-25-PAXXX	Tri Band PCM/FM PCI Receiver with 4 IF BW and 4 Video
LS-25-PBXXX	Tri Band PCM/FM PCI Receiver with 12 IF BW and 12 Video

PCI DOWNCONVERTER BOARDS; SINGLE CHANNEL, where X is frequency band

LS-25-DAX	Single-Band PCI Down Converter to 70 MHz with 4 Selectable 2nd IF Filters
LS-25-DBX	Single-Band PCI Down Converter to 70 MHz with 12 Selectable 2nd IF Filters
LS-25-DAXX	Dual-Band PCI Down Converter to 70 MHz with 4 Selectable 2nd IF Filters
LS-25-DBXX	Dual-Band PCI Down Converter to 70 MHz with 12 Selectable 2nd IF Filters
LS-25-DAXXX	Tri-Band PCI Down Converter to 70 MHz with 4 Selectable 2nd IF Filters
LS-25-DBXXX	Tri-Band PCI Down Converter to 70 MHz with 12 Selectable 2nd IF Filters

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PCI DOWNCONVERTER BOARDS ; SINGLE/DUAL CHANNEL, where X is frequency band

LS-27-DX	Single Channel Single Band Down Converter
LS-27-DXX	Single Channel Dual Band Down Converter
LS-27-DXXX	Single Channel Tri Band Down Converter
LS-27-DDXXXX	Single Channel Quad Band Down Converter
LS-27-DDX	Dual Channel Single Band Down Converter
LS-27-DDXX	Dual Channel Dual Band Down Converter
LS-27-DDXXX	Dual Channel Tri Band Down Converter
LS-27-DDXXXX	Dual Channel Quad Band Down Converter

BAND OPTIONS X *Custom Bands Available Upon Request (200-6000 MHz, Bandwidth Dependent)*

I	70MHz
P	215-320 MHz
L	1435-1540 MHz
U	1710-1850 MHz
S	2200-2400 MHz
E	2185-2485 MHz
S+	2185-3220
K	680-760 MHz
C	4250- 4950 & 5190-5250 MHz
CIF	450-1150 MHz

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Single/Dual Channel IF Receiver with Multi-Mode Demodulators/Bit Synchronizer/Combiners

- LS-35-R-M1 Single Channel PCM/FM only
- LS-35-R-M2 Single Channel SOQPSK only
- LS-35-R-M3 Single Channel PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, PM with sub-carrier
- LS-35-R-M4 Single Channel M3 demods plus AUQPSK
- LS-35-R-M6 Single Channel PCM/FM & SOQPSK
- LS-35-R-M7 Single Channel PCM/FM, SOQPSK, Multi-h CPM (ARTM Tier 0, I, II)
- LS-35-R-M8 Single Channel All formats
- LS-35-R-M21 Dual Channel PCM/FM only
- LS-35-R-M22 Dual Channel SOQPSK only
- LS-35-R-M23 Dual-Channel PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PM with sub-carrier
- LS-35-R-M24 Dual-Channel M3 demods plus AUQPSK
- LS-35-R-M26 Dual-Channel PCM/FM SOQPSK
- LS-35-R-M27 Dual-Channel PCM/FM, SOQPSK, Multi-h CPM (ARTM Tier 0, I, II)
- LS-35-R-M28 Dual-Channel All formats

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LS-35-R Series Options at Time of Order

- P Add Pre-D Diversity Combiner
- O Add Post-D Diversity Combiner
- B Add Both Pre and Post D combiner
- V Add Viterbi to a single channel unit
- V2 Add Viterbi to a dual channel unit
- RS Add Reed-Solomon Decoding to a single channel unit
- RS2 Add Reed-Solomon Decoding to a dual channel unit

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MODULAR FM RECEIVERS; where X is frequency band

LS-27-BX	Lumistar Single-Channel Single-Band Drive Bay Receiver with 8 IF filters
LS-27-BXX	Lumistar Single-Channel Dual-Band Drive Bay Receiver with 8 IF filters
LS-27-BXXX	Lumistar Single-Channel Tri-band Drive Bay Receiver with 8 IF filters
LS-27-BBX	Lumistar Dual-Channel Single-Band Drive Bay Receiver with 8 IF filters
LS-27-BBXX	Lumistar Dual-Channel Dual-Band Drive Bay Receiver with 8 IF filters
LS-27-BBXXX	Lumistar Dual-Channel Tri-band Drive Bay Receiver with 8 IF filters

SPECTRAL AND EYE PATTERN DISPLAY BOARDS

LS-22-SE	PCI 70 MHz Spectral and Baseband Eye Pattern Display - 1 Channel
LS-22-2SE	PCI 70 MHz Spectral and Baseband Eye Pattern Display - 2 Channels
LS-22-3SE	PCI 70 MHz Spectral and Baseband Eye Pattern Display - 3 Channels

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MASTER MODEL NUMBER SELECTION GUIDE

LS-28-DRSM SERIES MODULAR DUAL-CHANNEL RANGE TELEMETRY RECEIVER/COMBINERS

LS-28-DRSM Dual-Channel Single Band Configurations

LS-28-DRSM-M1X	Multi-Symbol PCM/FM demod format
LS-28-DRSM-M2X	SOQPSK only
LS-28-DRSM-M3X	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
LS-28-DRSM-M4X	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
LS-28-DRSM-M6X	Multi-Symbol PCM/FM and SOQPSK
LS-28-DRSM-M7X	Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
LS-28-DRSM-M8X	All Formats

LS-28-DRSM Dual-Channel Dual-Band Configurations

LS-28-DRSM-M1XX	Multi-Symbol PCM/FM demod format
LS-28-DRSM-M2XX	SOQPSK only
LS-28-DRSM-M3XX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
LS-28-DRSM-M4XX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
LS-28-DRSM-M6XX	Multi-Symbol PCM/FM and SOQPSK
LS-28-DRSM-M7XX	Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
LS-28-DRSM-M8XX	All Formats

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LS-28-DRSM Dual-Channel Tri-Band Configurations

- LS-28-DRSM-M1XXX Multi-Symbol PCM/FM demod format
- LS-28-DRSM-M2XXX SOQPSK only
- LS-28-DRSM-M3XXX Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
- LS-28-DRSM-M4XXX Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
- LS-28-DRSM-M6XXX Multi-Symbol PCM/FM and SOQPSK
- LS-28-DRSM-M7XXX Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
- LS-28-DRSM-M8XXX All Formats

LS-28-DRSM Dual -Channel Quad-Band Configurations

- LS-28-DRSM-M1XXXX Multi-Symbol PCM/FM demod format
- LS-28-DRSM-M2XXXX SOQPSK only
- LS-28-DRSM-M3XXXX Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
- LS-28-DRSM-M4XXXX Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
- LS-28-DRSM-M6XXXX Multi-Symbol PCM/FM and SOQPSK
- LS-28-DRSM-M7XXXX Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
- LS-28-DRSM-M8XXXX All Formats

See "Band Options" on p. 2 (NOTE: Up to six bands available in the "LS-28-DRSM" series)

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LS-28-DRSM Series Options at Time of Order

Lumistar offers various frequency bands, demodulation formats, Chapter 10 Ethernet Data Streaming, Data Archive, and various decoding schemes as options in the LS-28-DRSM series products. Ordering information is in parenthesis. Consult factory for additional details.

Pricing is dependent upon the customer selection of these options. Some examples are listed below:

- Demodulation Formats:
 - PCM/FM only (-M1), SOQPSK (-M2), PCM/FM and SOQPSK only (-M6)
 - PCM/FM, BPSK, QPSK, OQPSK, AQPSK, SQPSK, SOQPSK, and PM (-M3)
 - M3 formats plus AUQPSK (-M4),
 - BPSK, QPSK, OQPSK, SOQPSK, PM with sub-carrier (M5)
 - PCM/FM, SOQPSK and Multi-h CPM (-M7)
- CH10 Data Broadcast, Time Stamped (-C10E)
- Viterbi decoding (-V2)
- Reed-Solomon (-RS2)
- Soft Bit Decision Outputs (-SB3)
- Space Time Coding (-SC3)
- LDPC Coding (-LD3)
- Sub-carrier (-S2)
- AQPSK (-A2)
- Viterbi and Reed-Solomon Decoding (-VRS2)
- IRIG Pre-D Record/Playback (-IRP)

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LS-28-1DRSM SERIES MODULAR SINGLE-CHANNEL RANGE TELEMETRY RECEIVERS

LS-28-1DRSM Single-Channel Single Band Configurations

LS-28-1DRSM-M1X	Multi-Symbol PCM/FM demod format
LS-28-1DRSM-M2X	SOQPSK only
LS-28-1DRSM-M3X	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
LS-28-1DRSM-M4X	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
LS-28-1DRSM-M6X	Multi-Symbol PCM/FM and SOQPSK
LS-28-1DRSM-M7X	Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
LS-28-1DRSM-M8X	All Formats

LS-28-1DRSM Single-Channel Dual-Band Configurations

LS-28-1DRSM-M1XX	Multi-Symbol PCM/FM demod format
LS-28-1DRSM-M2XX	SOQPSK only
LS-28-1DRSM-M3XX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
LS-28-1DRSM-M4XX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
LS-28-1DRSM-M6XX	Multi-Symbol PCM/FM and SOQPSK
LS-28-1DRSM-M7XX	Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
LS-28-1DRSM-M8XX	All Formats

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MASTER MODEL NUMBER SELECTION GUIDE

LS-28-1DRSM Single-Channel Tri-Band Configurations

LS-28-1DRSM-M1XXX Multi-Symbol PCM/FM demod format

LS-28-1DRSM-M2XXX SOQPSK only

LS-28-1DRSM-M3XXX Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM

LS-28-1DRSM-M4XXX Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM

LS-28-1DRSM-M6XXX Multi-Symbol PCM/FM and SOQPSK

LS-28-1DRSM-M7XXX Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)

LS-28-1DRSM-M8XXX All Formats

LS-28-1DRSM Single-Channel Quad-Band Configurations

LS-28-1DRSM-M1XXXX Multi-Symbol PCM/FM demod format

LS-28-1DRSM-M2XXXX SOQPSK only

LS-28-1DRSM-M3XXXX Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM

LS-28-1DRSM-M4XXXX Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM

LS-28-1DRSM-M6XXXX Multi-Symbol PCM/FM and SOQPSK

LS-28-1DRSM-M7XXXX Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)

LS-28-1DRSM-M8XXXX All Formats

See "Band Options" on p. 2 (NOTE: Up to six bands available in the "LS-28-DRSM" series)

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LS-28-1DRSM Series Options at Time of Order

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Pricing is dependent upon the customer selection of these options. Some examples are listed below:

- Demodulation Formats:
 - PCM/FM only (-M1), SOQPSK (-M2), PCM/FM and SOQPSK only (-M6)
 - PCM/FM, BPSK, QPSK, OQPSK, AQPSK, SQPSK, SOQPSK, and PM (-M3)
 - M3 formats plus AUQPSK (-M4),
 - BPSK, QPSK, OQPSK, SOQPSK, PM with sub-carrier (M5)
 - PCM/FM, SOQPSK and Multi-h CPM (-M7)
- CH10 Data Broadcast, Time Stamped (-C10E)
- Viterbi decoding (-V2)
- Reed-Solomon (-RS2)
- Soft Bit Decision Outputs (-SB3)
- Space Time Coding (-SC3)
- LDPC Coding (-LD3)
- Sub-carrier (-S2)
- AQPSK (-A2)
- Viterbi and Reed-Solomon Decoding (-VRS2)
- IRIG Pre-D Record/Playback (-IRP)

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MASTER MODEL NUMBER SELECTION GUIDE

LS-28-DRS SERIES DUAL-CHANNEL RANGE TELEMETRY RECEIVER/COMBINERS

Dual-Channel Single Band Configurations

LS-28-DRS-M1X	Multi-Symbol PCM/FM demod format
LS-28-DRS-M2X	SOQPSK only
LS-28-DRS-M3X	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
LS-28-DRS-M4X	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
LS-28-DRS-M6X	Multi-Symbol PCM/FM and SOQPSK
LS-28-DRS-M7X	Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
LS-28-DRS-M8X	All Formats

Dual-Channel Dual-Band Configurations

LS-28-DRS-M1XX	Multi-Symbol PCM/FM demod format
LS-28-DRS-M2XX	SOQPSK only
LS-28-DRS-M3XX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
LS-28-DRS-M4XX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
LS-28-DRS-M6XX	Multi-Symbol PCM/FM and SOQPSK
LS-28-DRS-M7XX	Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
LS-28-DRS-M8XX	All Formats

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MASTER MODEL NUMBER SELECTION GUIDE

Dual-Channel Tri-Band Configurations

LS-28-DRS-M1XXX	Multi-Symbol PCM/FM demod format
LS-28-DRS-M2XXX	SOQPSK only
LS-28-DRS-M3XXX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
LS-28-DRS-M4XXX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
LS-28-DRS-M6XXX	Multi-Symbol PCM/FM and SOQPSK
LS-28-DRS-M7XXX	Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
LS-28-DRS-M8XXX	All Formats

Dual -Channel Quad-Band Configurations

LS-28-DRS-M1XXXX	Multi-Symbol PCM/FM demod format
LS-28-DRS-M2XXXX	SOQPSK only
LS-28-DRS-M3XXXX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
LS-28-DRS-M4XXXX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
LS-28-DRS-M6XXXX	Multi-Symbol PCM/FM and SOQPSK
LS-28-DRS-M7XXXX	Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
LS-28-DRS-M8XXXX	All Formats

See "Band Options" on p. 2

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MASTER MODEL NUMBER SELECTION GUIDE

LS-28-QRS SERIES QUAD CHANNEL RANGE TELEMETRY RECEIVER/COMBINERS

Quad-Channel Single Band Configurations

LS-28-QRS-M1X	Multi-Symbol PCM/FM demod format
LS-28-QRS-M2X	SOQPSK only
LS-28-QRS-M3X	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
LS-28-QRS-M4X	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
LS-28-QRS-M6X	Multi-Symbol PCM/FM and SOQPSK
LS-28-QRS-M7X	Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
LS-28-QRS-M8X	All Formats

Quad-Channel Dual-Band Configurations

LS-28-QRS-M1XX	Multi-Symbol PCM/FM demod format
LS-28-QRS-M2XX	SOQPSK only
LS-28-QRS-M3XX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
LS-28-QRS-M4XX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
LS-28-QRS-M6XX	Multi-Symbol PCM/FM and SOQPSK
LS-28-QRS-M7XX	Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
LS-28-QRS-M8XX	All Formats

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MASTER MODEL NUMBER SELECTION GUIDE

Quad-Channel Tri-Band Configurations

LS-28-QRS-M1XXX	Multi-Symbol PCM/FM demod format
LS-28-QRS-M2XXX	SOQPSK only
LS-28-QRS-M3XXX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
LS-28-QRS-M4XXX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
LS-28-QRS-M6XXX	Multi-Symbol PCM/FM and SOQPSK
LS-28-QRS-M7XXX	Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
LS-28-QRS-M8XXX	All Formats

Quad-Channel Quad-Band Configurations

LS-28-QRS-M1XXXX	Multi-Symbol PCM/FM demod format
LS-28-QRS-M2XXXX	SOQPSK only
LS-28-QRS-M3XXXX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
LS-28-QRS-M4XXXX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
LS-28-QRS-M6XXXX	Multi-Symbol PCM/FM and SOQPSK
LS-28-QRS-M7XXXX	Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
LS-28-QRS-M8XXXX	All Formats

See "Band Options" on p. 2

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MASTER MODEL NUMBER SELECTION GUIDE

LS-28-DRS-EC SERIES PORTABLE DUAL-CHANNEL RANGE TELEMETRY RECEIVER/COMBINERS

Dual-Channel Single Band Configurations

LS-28-DRS-EC-M1X	Multi-Symbol PCM/FM demod format
LS-28-DRS-EC-M2X	SOQPSK only
LS-28-DRS-EC-M3X	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
LS-28-DRS-EC-M4X	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
LS-28-DRS-EC-M6X	Multi-Symbol PCM/FM and SOQPSK
LS-28-DRS-EC-M7X	Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
LS-28-DRS-EC-M8X	All Formats

Dual- Channel Dual-Band Configurations

LS-28-DRS-EC-M1XX	Multi-Symbol PCM/FM demod format
LS-28-DRS-EC-M2XX	SOQPSK only
LS-28-DRS-EC-M3XX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
LS-28-DRS-EC-M4XX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
LS-28-DRS-EC-M6XX	Multi-Symbol PCM/FM and SOQPSK
LS-28-DRS-EC-M7XX	Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
LS-28-DRS-EC-M8XX	All Formats

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MASTER MODEL NUMBER SELECTION GUIDE

Dual- Channel Tri-Band Configurations

LS-28-DRS-EC-M1XXX	Multi-Symbol PCM/FM demod format
LS-28-DRS-EC-M2XXX	SOQPSK only
LS-28-DRS-EC-M3XXX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
LS-28-DRS-EC-M4XXX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
LS-28-DRS-EC-M6XXX	Multi-Symbol PCM/FM and SOQPSK
LS-28-DRS-EC-M7XXX	Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
LS-28-DRS-EC-M8XXX	All Formats

Dual- Channel Quad-Band Configurations

LS-28-DRS-EC-M1XXXX	Multi-Symbol PCM/FM demod format
LS-28-DRS-EC-M2XXXX	SOQPSK only
LS-28-DRS-EC-M3XXXX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, and PCM/PM
LS-28-DRS-EC-M4XXXX	Multi-Symbol PCM/FM, BPSK, QPSK, OQPSK, SOQPSK, AUQPSK and PCM/PM
LS-28-DRS-EC-M6XXXX	Multi-Symbol PCM/FM and SOQPSK
LS-28-DRS-EC-M7XXXX	Multi-Symbol PCM/FM, SOQPSK AND Multi-h CPM (ARTM Tier 0, I, II)
LS-28-DRS-EC-M8XXXX	All Formats

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MASTER MODEL NUMBER SELECTION GUIDE

LS-26 SERIES AIRBORNE PRODUCTS

- LS-26-XB Airborne PCM/FM Receiver with Internal Bit Synchronizer
- Airborne Receiver (X= Frequency Band, see page 2) with 4 IF Bandwidths and Bit Synchronizer with two 70 MHz IF outputs for external demodulation, recording, or digitization, PCM Baseband signal from the receiver section, external Bit Synchronizer input allows the unit to be used as an airborne bit synchronizer only, Data and Clock are output from the bit synchronizer
- LS-26-X Airborne PCM/FM Receiver, w/o Bit Synchronizer
- Airborne Receiver (X= Frequency Band, see page 2) with 4 IF Bandwidths and with two 70 MHz IF outputs for external demodulation, recording, or digitization, PCM Baseband signal from the receiver section.
- LS-26-X Airborne Downconverter
- Airborne Downconverter, (X= Frequency Band, see page 2) with 4 IF Bandwidths and with two 70 MHz IF outputs for external demodulation, recording, or digitization.
- LS-26-B Airborne Bit Synchronizer
- Accepts data rates up to 20 Mbps. Provides data and clock output.

Standard models available in X = lower L (1435-1540 MHz), upper L (1710—1850 MHz) and S band (2200-2400 MHz). Custom bands available, see page 2.

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MASTER MODEL NUMBER SELECTION GUIDE

LS-40-DB SERIES SINGLE-CHANNEL BIT SYNCHRONIZER PRODUCTS

“DB” Models can be mounted on LS-50-D, LS-55-DD, LS-50-e, and LS-22-SE products

LS-40-DB10	Daughterboard Bit Synchronizer, 10 Mbps
LS-40-DB20	Daughterboard Bit Synchronizer, 20 Mbps
LS-40-DB25	Daughterboard Bit Synchronizer, 25 Mbps
LS-40-cP10	Compact PCI Daughterboard Bit Synchronizer, 10 Mbps
LS-40-cP20	Compact PCI Daughterboard Bit Synchronizer, 20 Mbps
LS-40-cP25	Compact PCI Daughterboard Bit Synchronizer, 25 Mbps
LS-40-P10	PCI Bit Synchronizer, 10 Mbps
LS-40-P20	PCI Bit Synchronizer, 20 Mbps
LS-40-P25	PCI Bit Synchronizer, 25 Mbps

LS-45-DB SERIES SINGLE/DUAL CHANNEL COMBINING BIT SYNC PRODUCTS

LS-45-DB20	Single Channel Daughterboard Bit Synchronizer, 20 Mbps
LS-45-DB45	Single Channel Daughterboard Bit Synchronizer, 45 Mbps
LS-45-2DB20	Dual Channel Daughterboard Bit Synchronizer, 20 Mbps
LS-45-2DB45	Dual Channel Daughterboard Bit Synchronizer, 45 Mbps
LS-45-2DB45-PD	LS-45-2DB45 with Post D Combiner

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MASTER MODEL NUMBER SELECTION GUIDE

LS-45-P SERIES SINGLE/DUAL CHANNEL COMBINING BIT SYNC PRODUCTS

LS-45-P20	Single Channel Daughterboard Bit Synchronizer, 20 Mbps
LS-45-P45	Single Channel Daughterboard Bit Synchronizer, 45 Mbps
LS-45-2P20	Dual Channel Daughterboard Bit Synchronizer, 20 Mbps
LS-45-2P45	Dual Channel Daughterboard Bit Synchronizer, 45 Mbps
LS-45-2P45-PD	LS-45-2DB45 with Post D Combiner

LS-45-S SERIES SINGLE/DUAL CHANNEL COMBINING BIT SYNC PRODUCTS

(Serial I/O, no PCI bus control)

LS-45-S20	Single Channel SERIAL I/O Bit Synchronizer, 20 Mbps
LS-45-S45	Single Channel SERIAL I/O Bit Synchronizer, 45 Mbps
LS-45-2S20	Dual Channel SERIAL I/O Bit Synchronizer, 20 Mbps
LS-45-2S45	Dual Channel SERIAL I/O Bit Synchronizer, 45 Mbps
LS-45-2S45-PD	LS-45-2S45 with Post D Combiner

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MASTER MODEL NUMBER SELECTION GUIDE

LS-40-B MODULAR BIT SYNCHRONIZER PRODUCTS

LS-40-B10	Drive Bay Bit Synchronizer, 10 Mbps
LS-40-B20	Drive Bay Bit Synchronizer, 20 Mbps
LS-40-B25	Drive Bay Bit Synchronizer, 25 Mbps

LS-45-B MODULAR BIT SYNCHRONIZER PRODUCTS

LS-45-B20	Single Channel Modular Bit Synchronizer, 20 Mbps
LS-45-B45	Single Channel Modular Bit Synchronizer, 45 Mbps
LS-45-2B20	Dual Channel Modular Bit Synchronizer, 20 Mbps
LS-45-2B45	Dual Channel Modular Bit Synchronizer, 45 Mbps
LS-45-2B45-PD	LS-45-2B45 with Post D Combiner

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MASTER MODEL NUMBER SELECTION GUIDE

LS-44-QBS Series Quad Rack-Mount Bit Sync/Frame Sync, 25 Mbps

LS-44-QBS-1D	Rack Mount Bit Synchronizer (single channel) with DOS Software
LS-44-QBS-2D	Rack Mount Bit Synchronizer (dual channel) with DOS Software
LS-44-QBS-3D	Rack Mount Bit Synchronizer (3 channel) with DOS Software
LS-44-QBS-4D	Rack Mount Bit Synchronizer (4 channel) with DOS Software
LS-44-QBS-1W	Rack Mount Bit Synchronizer (single channel) with Windows Software
LS-44-QBS-2W	Rack Mount Bit Synchronizer (dual channel) with Windows Software
LS-44-QBS-3W	Rack Mount Bit Synchronizer (3 channel) with Windows Software
LS-44-QBS-4W	Rack Mount Bit Synchronizer (4 channel) with Windows Software

Keyboard Display Units

LS-44-KD	1U Keyboard/Display
LS-44-KDS	1U Keyboard/Display with KVM Switch

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LS-50 SERIES PCI DECOMMUTATION PRODUCTS

LS-50-D	Multi-function PCI PCM Decom w/ TCR, TCG, PCM Sim/BERT, PCM Decom
LS-50-e	PCI-e Multi-function PCM Decom w/ TCR, TCG, PCM Sim/BERT, PCM Decom
LS-55-DD	Dual Channel PCI Multi-Function Decom
LS-50-cP	Multi-function PCM Decommutator, Compact PCI
LS-55-cP	Dual Channel PCM Decommutator, Compact PCI

LS-71 DAC PRODUCTS

16 or 32 Channel - supplied with DAC output mating connector and cable assy for LS-50

LS-71-P16	PCI 16-Channel A/D Converter with one word selector - supports one LS-50 Decom
LS-71-P16D	PCI 16-Channel A/D Converter with two word selectors - supports two LS-50 Decoms
LS-71-P32	PCI 32-Channel A/D Converter with one word selector - supports one LS-50 Decom
LS-71-P32D	PCI 32-Channel A/D Converter with two word selectors - supports two LS-50 Decoms
LS-71-PA16	19" BNC panel with 16 Channel Breakout Cable Assembly
LS-71-PA32	19" BNC panel with 32 Channel Breakout Cable Assembly

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Software Options

LDPS	Software for setup, control, and display of receivers, bit syncs, decoms, and DACs
LDPS-Pro	Software for setup, control, and display of receivers, bit syncs, decoms, and DACs and CVSD voice decoding, h.261 video decoding, IRIG 106 Chapter 8, 2D and 3D maps, LDPS-Pgm Pro Software Program license for an unlimited number of server/client computers for a single program for a specific customer.

Custom Integrated Systems

Available in 1U, 2U, 3U, 4U, "EC portable", "AP portable" chassis types.

Contact Lumistar to discuss your Specific Requirements. We will tailor a system to meet your requirements using our numerous card level and//or third-party products.

Example: Model Number "LS-84-RBDRBD-R4" is a Dual Channel Telemetry Receiving System with two LS-25 Receivers, two LS-40-DB Bit Syncs & two LS-50 Decoms in a 4U Rack mount chassis. The possibilities of combinations of TM product functionality are almost endless!

Contact Factory for all detailed specifications of all Custom Integrated Systems.

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