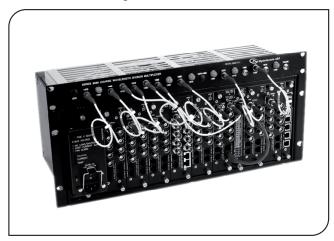




Features

SpectraStream™ and SpectraStreamPlus™

- Preconfigured video transport systems for one fiber transmission of up to 128 channels
- Digital, uncompressed, high quality video ≥67 dBw SNR
- SpectraStream systems support simplex data in the same direction as the video
- SpectraStreamPlus systems support multiple duplex data channels
- 9900 Network Management System



Description

These preconfigured, assembled, and tested *SpectraStream* systems utilize CWDM techniques to transport up to 128 channels of uncompressed live video on one fiber. By combining CWDM versions of our standard 9152D and 9252D 8-channel multiplexer and demultiplexer cards with CWDM optical components, systems transporting 16, 32, 48, 96, and 128 channels of video are available.

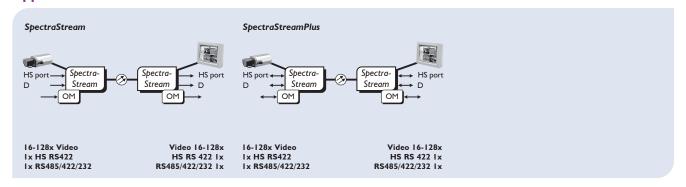
Option cards supporting additional data, audio, contact closure channels, and 10 or 100 Mb Ethernet on the same fiber are available. The system can be monitored via serial port, SNMP or Ethernet using the optional 9942A and 9900 NMS software package.

If a more specialized system is required, contact your sales representative or the factory for assistance in designing a custom system.

Ordering information

Models	Description	Fiber type	Wavelength	Distance	Housing
SpectraStream-16-FC	16 Channel Video Transmission System w/Simplex Data	SM	CWDM	42 km	19" rack
SpectraStream-32-FC	32 Channel Video Transmission System w/Simplex Data	SM	CWDM	44 km	19" rack
SpectraStream-48-FC	48 Channel Video Transmission System w/Simplex Data	SM	CWDM	44 km	19" rack
SpectraStream-64-FC	64 Channel Video Transmission System w/Simplex Data	SM	CWDM	44 km	19" rack
SpectraStream-96-FC	96 Channel Video Transmission System w/Simplex Data	SM	CWDM	44 km	19" rack
SpectraStream-128-FC	128 Channel Video Transmission System w/Simplex Data	SM	CWDM	44 km	19" rack
SpectraStreamPlus-16-FC	16 Channel Video Transmission System w/Duplex Data	SM	CWDM	44 km	19" rack
SpectraStreamPlus-32-FC	32 Channel Video Transmission System w/Duplex Data	SM	CWDM	44 km	19" rack
SpectraStreamPlus-48-FC	48 Channel Video Transmission System w/Duplex Data	SM	CWDM	44 km	19" rack
SpectraStreamPlus-64-FC	64 Channel Video Transmission System w/Duplex Data	SM	CWDM	44 km	19" rack
SpectraStreamPlus-96-FC	96 Channel Video Transmission System w/Duplex Data	SM	CWDM	44 km	19" rack
SpectraStreamPlus-128-FC	128 Channel Video Transmission System w/Duplex Data	SM	CWDM	44 km	19" rack

Applications



SpectraStream™ and SpectraStreamPlus™

Technical Specifications

Video (per channel) Video Format

NTSC, PAL

1V pk-to-pk into 75Ω BNC Video Input

Connector Bandwidth 5 Hz to 6.5 MHz (-3 dB)

≤0.7% ≤0.7° Differential Gain Differential Phase ≥67 dBw SNR

Video encoding Uncompressed 10 bit linear PCM

Video sampling rate 16 MHz

Data^{1, 2}

SpectraStream Data Ports

Connector

Simplex RS485/RS422, Simplex RS232 RJ45 Interface

SpectraStream RS485 Ports

Simplex RS485 RJ45 Interface

Connector

SpectraStream HS Ports Simplex RJ45 Interface

Connector SpectraStreamPlus Data Ports

Duplex RS485/RS422 RJ45 Interface

Connector

SpectraStreamPlus RS485 Ports

Interface Duplex 2-Wire

RJ12 Connector

SpectraStreamPlus HS Ports

Interface Duplex/Simplex Connector RJ45
Simplex ports operate in the TX to RX direction.

² For details refer to the 9152D and 9252D Specification Sheets. Other Data Options are available; consult Optelecom-NKF for details.

Optical

Power Requirements All systems operate from 100-240 VAC 50/60 Hz

Management 9900 Network Management System (NMS)

Physical Specifications
Model/System Size
(number of video channels)
No. of 9002 Chassis Transmit End
No. of 9002 Chassis Receiver End 16 32 48 64 96 128 2U-19" CWDM Unit Built-in Built-in Built-in Built-in 1U-19"

9002 Chassis Dimensions — 19" rack-mount chassis Dimensions (h x w x d) 7 x 19 x 8 in. (177.8 x 442.6 x 203.2 mm) Weight (empty) 6.0 lbs. (2721.5 g)

Environmental

-40° C to +74° C (-40° F to +165.2° F) -55° C to +85° C (-67° F to +185° F) 0 to 95% noncondensing Operating temperature

Storage temperature

Relative humidity

Optical	SpectraStream-	SpectraStream- 32	SpectraStream- 48	SpectraStream- 62	SpectraStream- 96	SpectraStream-
Fiber type (mm)	SM (09)	SM (09)	SM (09)	SM (09)	SM (09)	SM (09)
System link budget	18 dB	18 dB	18 dB	18 dB	18 dB	18 dB
Link length	42 km	60 km	50 km	50 km	15 km	15 km
Min. link loss	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB
Output power	-5 dBm	-3 dBm	-3 dBm	-3 dBm	-3 dBm	-3 dBm
Output wavelength	1310-1550 nm	1510-1570 nm	1510-1610 nm	1470-1610 nm	1330-1610 nm	1310-1610 nm
Input sensitivity	-23 dBm	-21 dBm	-21 dBm	-21 dBm	-21 dBm	-21 dBm
Connector type	FC/ST	FC/ST	FC/ST	FC/ST	FC/ST	FC/ST







