

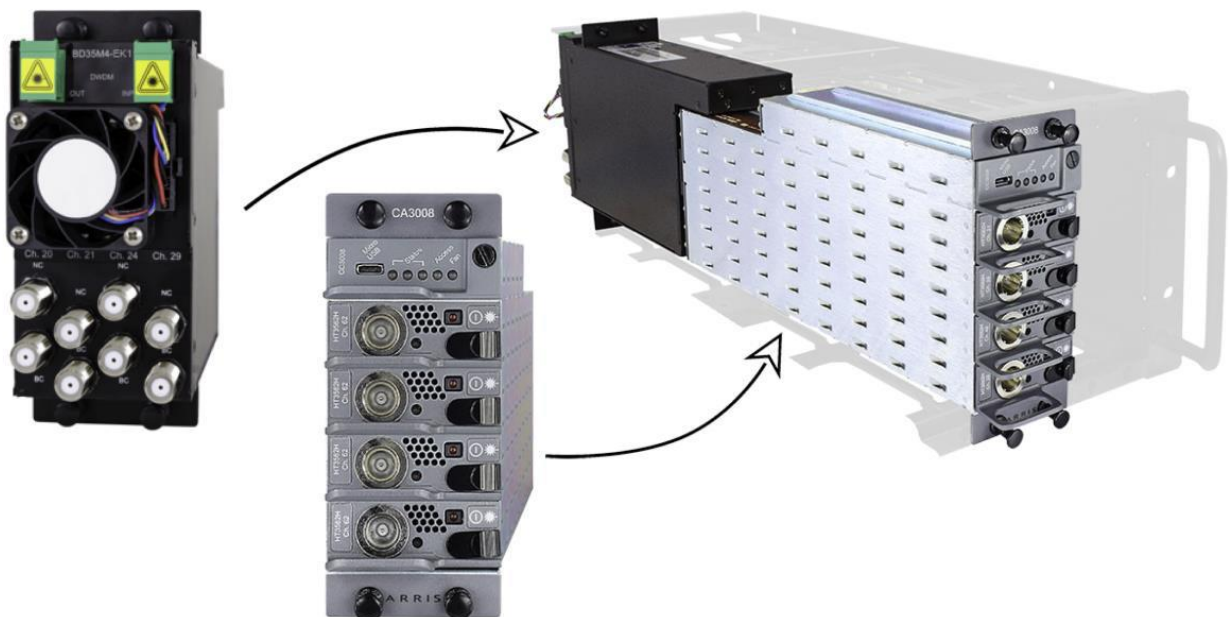
COMMSCOPE HT3562H Serie

HIGH PERFORMANCE DOUBLE-DENSITY FULL SPECTRUM DWDM TRANSMITTER SYSTEM

Das COMMSCOPE HT3562H Double-Density DWDM Transmitter System bietet hohe Leistung und eine Vorweg-Übertragungslösung mit hoher Rackdichte für Kabel-TV Anbieter.

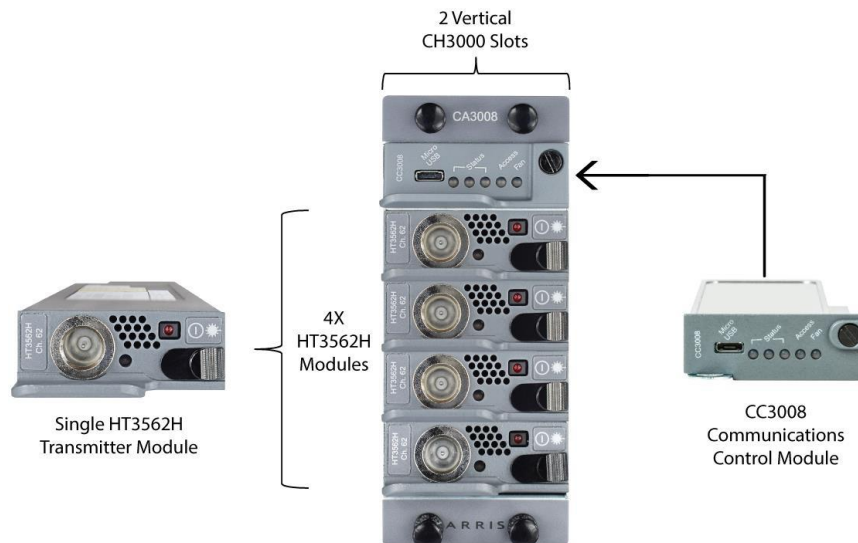
Das kompakte Design ermöglicht bis zu 4 HT3562H Transmitter plus ein CC3008 Kommunikations-Kontroll-Modul in einem CA3008 Modulträger zu stapeln und benötigt dafür nur 2 Slots in einem 3 HE Chassis. Diese kompakte Lösung erlaubt bis zu 24 Transmitter in einem CH3000 Chassis, inklusive redundanter Stromversorgung.

Das Bild unten zeigt einen vollbestückten Modulträger, kombiniert mit einer BD35M4 Double-Density Multiplexing Back Plate, das optisches Multiplexing unterstützt.



4 HT3562H und ein CC3008 Kommunikations-Modul in einem CA3008 Modulträger in Verbindung mit einem BD35M4 Back Plate.

HT3562H SERIE DOUBLE-DENSITY FULL SPECTRUM DWDM TRANSMITTER (1.2 GHZ PASSBAND)



Das Bild oben zeigt die Vorderansicht der CA3008 Komponenten: Einen HT3562H Double-Density Transmitter (links), ein CC3008 Kommunikationsmodul (rechts) und einen vollbestückten CA3008 Modulträger (Mitte) mit 4 DWDM Transmittern, die nur 2 vertikale Steckplätze im CH3000 Chassis belegen.

FEATURES

- DWDM Transmitter: 16 Wellenlängen im ITU Grid
- Manuelle oder automatische Gain Control (AGC) Modi
- Optimierte für Full Spectrum Loading
- Analog-Loading bis zu 258 MHz plus QAM Loading oder nur QAM Loading
- Geringer Energiebedarf
- Hohe Rack-Dichte: 24 Transmitter pro 3 HE Chassis, mit redundanter Stromversorgung und optischem Multiplexing
- Optionale HF Input Equalization Controls
- Hot plug-in/out, individuell austauschbar
- -20 dB Eingangs-Messpunkt an der Vorderseite
- Laser On/Off Interlock Switch an der Vorderseite
- Vorort- und Remote-Statusmonitoring

SPEZIFIKATIONEN

PHYSICAL			
Dimensions	11.5" D x 0.8" H x 2.0" W (29.2 x 2.0 x 5.1 cm) 4 Transmitter units designed to be vertically stacked, plus a CC3008 Communications Module, and installed inside a CA3008 Module Carrier. The combination occupies two slots in a 3RU CH3000 Chassis.		
Weight	0.75 lbs. (0.34 kg)		
ENVIRONMENTAL			
Operating	0° to +50°C (32° to 122°F)		
Storage	-40° to 85°C (-40° to 185°F)		
Humidity	5% to 95% non-condensing		
RF AND OPTICAL INTERFACE			
RF input	F-type male (located on BD31A4 or BD35M4 Back Plates)		
Input RF test point	G-type male (located at front panel, -20 dB)		
Optical connector	SC/APC (mates to BD31A4 or BD35M4 Back Plates)		
POWER REQUIREMENTS			
Input voltage	12 VDC		
Power consumption	7 W typical, 10 W max., per transmitter including any power for controller and back plate cooling fan		
GENERAL			
	Hot plug-in/out		
	Manual gain alignment		
CHANNEL LOADING			
	0 to 20 Analog channels (up to 258 MHz), plus QAM channels		
OPTICAL			
Optical output power	11.8 ± 0.5 dBm		
Wavelength	16 wavelengths on ITU grid. See ordering information section, DWDM ITU Channel Plans description.		
ELECTRICAL			
Passband	46-1218 MHz		
Frequency response (including slope)	± 0.75 dB (BC input @ 25°C) -6 ± 1.0 dB (NC input relative to BC input)		
Nominal RF input levels (input attenuator = 0 dB)	30 Analog plus 160 QAM loading: 14.8 dBmV/ch for 30 analog channels into BC input 8.8 dBmV/ch for 256-QAM channels into BC input, or 14.8 dBmV/ch into NC input 190 QAM loading: 10.5 dBmV/ch for 190 256-QAM channels into BC input, or 16.5 dBmV/ch into NC input		
RF input impedance	75 Ω, nom.		
RF input return loss	18 dB, min.		
RF input attenuator/amplify range (Manual Mode)	-5.0 to +3.0 dB		
RF input attenuator step size	0.5 dB		
RF input equalizer slope	0 to 3 dB		
AGC Mode	Maintains laser power to within ± 3 dB of the learned RF value		
Level stability (typical)	± 1.0 dB		
256-Qam or OFDM BER	< 10 ⁻⁹ (pre-FEC, ITU-B)		
Link performance at 60 km	Loading	30A + 160 QAM/OFDM	190 QAM/OFDM
	CNR* (dB)	50.5 (52 at 40 km)	
	MER (dB)	> 42 dB	> 44 dBm
	CSO (dB):	62	
	CTB (dB)	65	
* max. of 0.5 dB degradations below 100 MHz			
DWDM ITU CHANNEL PLANS			
	COMMSCOPE supports DWDM network architectures with a variety of products on the standard DWDM ITU Grid (ITU-T G.694.1). For a more complete description, please refer to the COMMSCOPE DWDM ITU Grid Channel Plan Data Sheet		

BD35M4-EK Double-Density Back Plates

Die COMMSCOPE BD35M4-EK Back Plate-Familie ist ein 100 GHz ITU Grid konformes Double-Density Mux Back Plate, welches die die Ausgänge von 4 HT3562H Double-Density Full Spectrum Transmittern multiplext.

Diese 4-Kanal Mux Back Plates (für welches die Ausgänge zu einem anderen Back Plate kaskadiert werden können) kann für verschiedene Kanalgruppen bestellt werden.



SPEZIFIKATIONEN

PHYSICAL		
Dimensions	7.2" D x 5.2" H x 2.0" W (18.2 x 13.2 x 5.1 cm)	
Weight	2.0 lb. (0.91 kg)	
ENVIRONMENTAL		
Operation	-20° to +65°C (-4° to 149°F)	
Storage	-40° to +85°C (-40 to +185°F)	
Humidity	5% to 95% non-condensing	
POWER REQUIREMENTS		
Input voltage	12 VDC	
Power consumption	5 W max (2.5 W Typ), including the replaceable cooling fan	
OPTICAL INTERFACE		
Optical Connectors	SC/APC (2)	
	- DWDM INP (input from previous mux back plates) - DWDM OUT (output to network or next mux back plate)	
RF INTERFACE		
8 F-Type Connectors	4 BC and 4 NC (1BC/NC pair per transmitter)	
OPTICAL		
Channel spacing	100 GHz	
Channel plan	See ordering information and ITU Channel Plans description	
Insertion Losses, including connectors		
	Typ	Max
DWDM input to DWDM output	1.0 dB	1.2 dB
CH yy input to DWDM output	1.4 dB	1.6 dB
Uniformity, including connectors		
Module Uniformity	0.7 dB	1.0 dB
Paired Uniformity	0.4 dB	0.6 dB
Return loss, min	45 dB	
Directivity, min	55 dB	
Passband @ 0.2 dB		
Ch yy input to DWDM output	± 0.125 nm	
DWDM input to DWDM output	Passes 1423.5 through 1617.5 with a notch at the channel add/drop band. WDL for the passband is within ± 0.15 dB	
Ripple within passband	0.5 dB max	
Polarization dependent loss, max	0.1 dB (typically < 0.05 dB)	
Power handling, max (any input port)	21.8 dBm	

BD31A4-100 Double-Density Back Plates

Das BD31A4 ist ein Double-Density Back Plate, welches 4 separate BC und 4 separate NC HF-Eingänge oder 1 gemeinsamen BC und 4 separate NC HF-Eingänge für 4 HT3562H Transmitter bietet.

Das BD31A4-100 bietet HF-Eingang und optische Verbindungen zu oder von den HT3562H Transmittern.

Das BD31A4-100-H12F-0-AS ist ein Double-Density Back Plate, welches 4 separate BC Eingänge und 4 separate NC HF-Eingänge für 4 HT3562H Transmitter bietet. Es hat außerdem 4 separate optische SC/APC-Ausgangsanschlüsse.

Das BD31A4-100-H10F-0-AS ist ein Double-Density Back Plate das 1 gemeinsamen BC Eingang und 4 separate NC HF Eingänge für 4 HT3562H Transmitter bietet. Es hat außerdem 4 separate optische SC/APC-Ausgangsanschlüsse.



BD31A4-100-H12F-0-AS Back Plate



CA3008 Module Carrier

SPEZIFIKATIONEN

PHYSICAL	
Dimensions	7.2" D x 5.2" H x 2.0" W (18.2 x 13.2 x 5.1 cm)
Weight	2.0 lb. (0.91 kg)
ENVIRONMENTAL	
Operation	-20° to +65°C (-4° to 149°F)
Storage	-40° to +85°C (-40 to +185°F)
Humidity	5% to 95% non-condensing
POWER REQUIREMENTS	
Input voltage	12 VDC
Power consumption	5 W max (2.5 W Typ), including the replaceable cooling fan
OPTICAL	
Through 4 SC/APC connectors, the BD31A4-100 provides optical passthrough from the HT3562H transmitter.	
Optical Insertion Loss	0.2 dB Typ; 0.4 dB Max
	Refer to the HT3562H product specifications for more information.
RF INTERFACE	
Through 8 F-Type RF connectors, the BD31A4-100 provides RF passthrough to the HT3562H transmitter	4 BC and 4 NC (1BC/NC pair per transmitter)

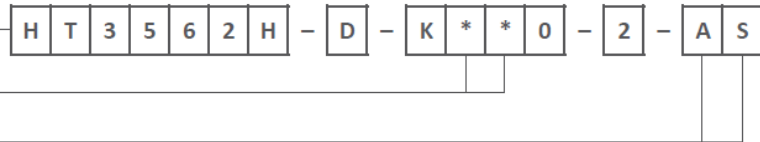
BESTELLINFORMATIONEN

HT3562H TRANSMITTER

High Performance Double-Density, Full Spectrum DWDM Transmitter (1.2 GHz)

ITU Channel Number (20 through 62; reference ARRIS DWDM ITU Grid Channel Plan Data Sheet)

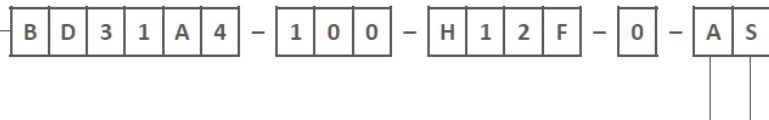
Connector Type: SC/APC



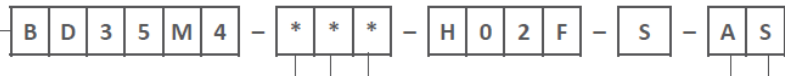
BACK PLATES

Double-Density Back plate for 4 HT3xxx Full Spectrum Transmitters with SC/APC Connector

Connector Type: SC/APC



Double-Density Multiplexing Back plate for 4 HT3562 Full Spectrum Transmitters with SC/APC Connector



HT3562H Wavelength Plan	
Code	Wavelength Group
EK1	ITU CH 21, 28, 33, 39
EK2	ITU CH 44, 52, 57, 62
EK3	ITU CH 22, 24, 26, 36
EK4	ITU CH 48, 54, 60, 61
EK5	ITU CH 21, 33, 44, 57

Connector Type:
SC/APC

PASSIVES ZUBEHÖR

Optical Passives for HT3562 Full Spectrum Transmitters, see associated Data Sheets

Passive	Description
NP35C01S0EZ0S-OLD-AS	LGX Package Red/Blue Single Filter for ITU Channels 19-39, 44-63 with SC/APC connector
NP95D04SK1A0S-1FE-00	F-Case Demux for ITU Channels 21, 28, 33, 39 0.9-mm fibers with no connector
NP95D04SK2A0S-1FE-00	F-Case Demux for ITU Channels 44, 52, 57, 62 0.9-mm fibers with no connector
NP95D04SK3A0S-1FE-00	F-Case Demux for ITU Channels 22, 24, 26, 36 0.9-mm fibers with no connector
NP95D04SK4A0S-1FE-00	F-Case Demux for ITU Channels 48, 54, 60, 61 0.9-mm fibers with no connector
NP95D04SK5A0S-1FE-00	F-Case Demux for ITU Channels 21, 33, 44, 57 0.9-mm fibers with no connector
NP95C01S0EZ0S-1SD-00	S-Case Single Filter for ITU Channels 19-39, 44-63 0.9-mm fibers with no connector
NP95C01S0EZ0S-2SD-AS	S-Case Single Filter for ITU Channels 19-39, 44-63 1.6-mm fibers with SC/APC connector

SYSTEM ZUBEHÖR

Communications Control Module

C C 3 0 0 8

Module Carrier

C A 3 0 0 8

Filler Module for Double-Density Slots

H T 3 F I L D



RELATED PRODUCTS

CH3000 Chassis	Optical Patch Cords
Optical Transmitters	Optical Passives
Digital Return	Installation Services