

ARRIS DT3515C

DIGITAL TRANSMITTER (5-65 MHZ)

Der DT3515C Digital Transmitter digitalisiert zwei HF Rückwege (mit 5-65 MHz Durchlassbereich), bündelt sie und überträgt dies bei 3.1875 Gbps über eine Single-Rückweg-Glasfaserleitung auf einer DWDM ITU-Grid Wellenlänge.

Der DT3515C verringert den Glasfaserverbrauch indem er zwei HF-Rückwege mit einer ITU-Grid Wellenlänge bietet und damit das Netzwerk durch die Verwendung von DWDM-Übertragung zwischen Hubs und Headend stark vereinfacht. Der 5dBm Transmitter-Ausgangsleistung unterstützt Verbindungsverluste bis zu 23 dB und 200 km Verteilungs-Grenzen.



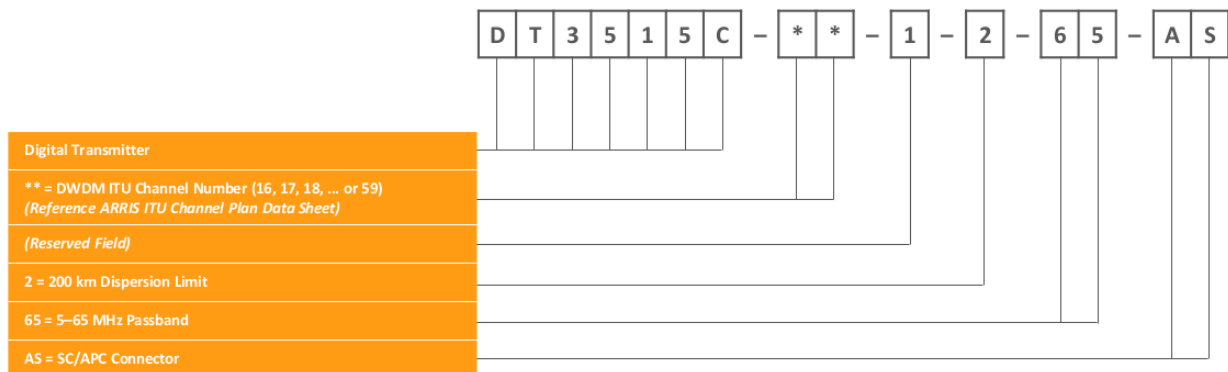
- Digitalisiert 5–65 MHz HF-Rückwege
- Bündelt zwei Rückweg-Segmenten in einen einfachen Datenstream
- Optische Ausgänge mit einem 100 GHz-gerasterten DWDM Grid (ITU-T G.694.1) für bis zu 40 Wellenlängen pro Glasfaser
- 5 dBm Übertragungsleistung
- Überträgt mit einer Bitrate von 3.1875 Gbps
- Kompatibel mit ARRIS's BP-35M4 Serie von Multiplex-Back-Plates für stark vereinfachte Verkabelung
- Laser On/Off Interlock Schalter an der Vorderseite
- Hot plug-In/Out
- Status-Monitoring vor Ort oder über Fernsteuerung
- Belegt einen ganzen Steckplatz

SPEZIFIKATIONEN

PHYSICAL		ENVIRONMENTAL	
Dimensions	13.0" D x 4.3" H x 1.0" W (3RU) (33 cm x 11 cm x 2.5 cm)	Operating temperature range	-20° to +65°C (-4° to 149°F)
		Storage temperature range	-40° to +85°C (-40° to 185°F)
Weight	1.5 lbs (0.68 kg)	Humidity	5% to 95% non-condensing
INTERFACE		OPTICAL OUTPUT	
Optical connectors	SC/APC (on Back Plate BP-A6 or BP35M4x-1-02-AS)	Number of channels (models)	44 (DWDM ITU-T G.694.1 Chs 16 thru 59)
RF input connectors	2 F-type connectors (on Back Plate BP-A6 or BP35M4x-1-02-AS)	Optical channel spacing	100 GHz
RF input test points	2 G-type male connectors on front panel	Wavelength	See DWDM ITU Channel Plans description
GENERAL		Wavelength stability	± 0.1 nm
Optical transmission bit rate	3.1875 Gbps	Output power	5 dBm ± 0.5 dBm
Hot plug-In/Out		Output level stability	± 0.2 dB
Manual gain alignment		Dispersion limit (SMF-28 fiber)	200 km

RF INPUTS		DISTORTIONS	
Number of inputs	2	Input, nominal	-56 dBmV/Hz
Isolation between channels	60 dB (combined with receiver)	Loading, nominal	5-65 MHz (QPSK carriers or equivalent Gaussian noise)
Channel characteristics (each channel):		Dynamic range @ 40 dB CNR	11 dB
Passband	5-65 MHz	Peak NPR	47 dB
Frequency response	± 0.5 dB	POWER REQUIREMENTS	
Input return loss, min	18 dB	Input voltage	12 VDC
Level stability	± 0.5 dB	Power consumption	12 W
Gain control range, min	16 dB (1 dB steps)	DWDM ITU CHANNEL PLANS	
Input level, RF test point	-20 ± 0.5 dB	ARRIS supports DWDM network architectures with a variety of products on the standard DWDM ITU Grid (ITU-T G.694.1). For more complete description of available DWDM ITU Grid channels and RRIS's partitioning into convenient logical groups of 4, 8 and 16 channels in products for DWDM applications, please refer to the ARRIS DWDM ITU Grid Channel Plan data sheet. When ordering DT3515C transmitters on the ITU grid please note, for network planning purposes, that AT3550 "BA" series broadcast transmitters operate at 1563.0 nm ± 0.9 nm, occupying the approximate region of DWDM ITU Grid channels 17 through 19. Similarly, AT3550 "BC" series broadcast transmitters operate at 1545.3 ± 0.9 nm, occupying the approximate region of DWDM ITU Grid channels 39 through 41.	
Test point return loss, min	18 dB		
System nominal gain	23 dB		

BESTELLINFORMATIONEN



Notes for Module Back Plates

DT3515C series transmitters may be connected to one of two different styles of chassis back plates, which must be ordered separately depending on the application. One style provides connections for a single transmitter. This single-width back plate may be ordered as:



The second style provides connections for a group of four transmitters installed in adjacent chassis slots. These 4-channel mux back plates (for which outputs can be cascaded from one back plate to another) may be ordered for 10 different channel groups (model BP-35M4J for ITU Ch 20-23 thru model BP35-M4U (for ITU Ch 56-59). Please refer to the data sheet for these back plates for specifications and a complete list.

