DATA SHEET

C-COR CATV BROADCAST

04

2 Year Warranty

1550nm Broadcast Optical Transmitter

Cost-effective solution for fibre-dense architectures

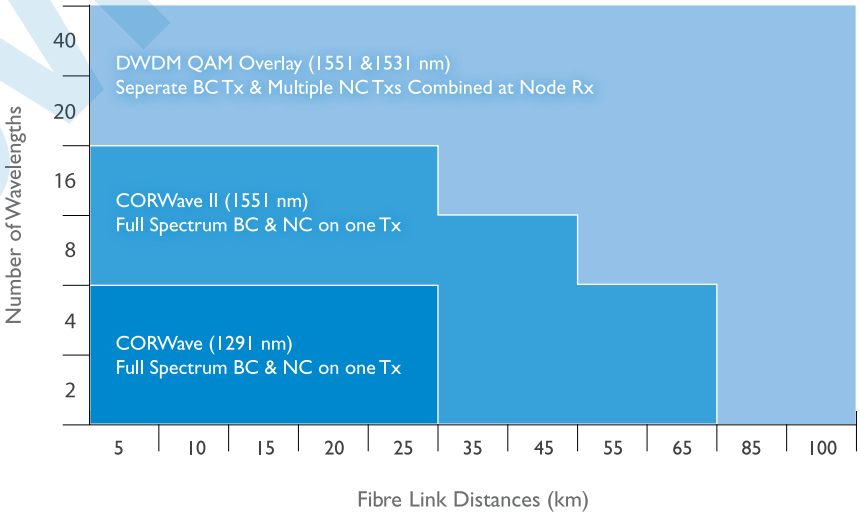
The ARRIS Multi Wavelength Forward Transmitter is a high powered product that allows you to split the signal across many nodes whilst ensuring the best broadcast experience for end-users. Each transmitter supports full spectrum broadcasting and narrowcasting at 54 to 1002 MHz for up to 65 km without the complexity and operational expense of traditional DWDM QAM overlay architectures.

The ARRIS transmitter provides the ability to multiplex up to 16 full spectrum wavelengths in the forward path over one fibre effectively saving operators CAPEX that would otherwise be spent on new fibre runs.

MSOs can also consolidate or eliminate OTN sites, split nodes in distant locations for success-based expansion, and combine broadcast and narrowcast signals in the environmentally controlled headend. As a result, complex field set-ups are reduced allowing new services to be deployed quickly. The ARRIS multi wavelength plan eliminates service interruptions due to optical impairments allowing business and residential services to be run over fibre if desired.

The ARRIS transmitter can be monitored by the CORView element management system which provides an intuitive and user-friendly interface for security, discovery, configuration, and inventory functions.

ARRIS MULTI-WAVELENGTH PORTFOLIO



ARRIS supports all of the above architectures. Each provides an optimum solution for specific needs or requirements.

MAIN FEATURES:

- High performance 1550nm transmission delivers full spectrum broadcast and narrowcast capability up to 65 km
- Business and residential services can be run over as few as one fibre with no service interruptions caused by optical impairments*
- Industry leading low power consumption
- 1 GHz bandwidth
- CORView Element Management System
- 1 RU platform to save space
- Best parts and labour warranty in the industry
- 24/7 world class technical support

*By using ARRIS recommended wavelength plan

c-cor
Underpinning Innovative Technology

C-COR BROADBAND

Australasian Office

2 Anzed Court
Mulgrave VIC 3170
Australia

T: +61 3 8542 0600
F: +61 3 8542 0629

E: sales@c-cor.com.au

www.c-cor.com.au

India Office

316, Corporate Avenue
Sonawala Lane Goregaon (E)
Mumbai 400 063
India

T: +91 22 26 86 27 71
E: sales@c-cor.com.au

Philippines Office

3rd Floor, BJS Building
1869 P. Domingo Street
Makati City 1207
Philippines

T: +63 2 836 0046
E: sales@c-cor.com.ph

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C-COR Broadband is an authorised distributor for ARRIS Group Incorporated in South Asia, Philippines and Australasia.

ARRIS Multi Wavelength Forward Transmitters Technical Specification

GENERAL SPECIFICATIONS

Optical	
Wavelength	1525 to 1565 nm, 16 optimized wavelengths
Output Power	8.5 dBm
Link	Up to 65km[1]
RF	
Operating Bandwidth	54 to1002 MHz
Channel Loading	54 to 550 MHz analog channels, 450 MHz, 256 QAM channels (6 dB below analog)
Input RF Power:	15 to 25 dBmV
RF Input Impedance:	75Ω
Flatness	±1.0 dB peak-to-valley
Testpoint Loss	20 ± 1.0 dB
Typical Link Performance	
Carrier-to-Noise (CNR)	≥ 49 dB[2-3]
Carrier-to-CSO (CSO)	-60 dBc[2-3]
Carrier-to-CTB (CTB)	-60 dBc[2-3]
Physical Footprint	fits within IRU, a 19" rack per EIA-310
Network Management	
Element Management System	SNMP Ethernet v1, v2, v3
	CORView EMS
Electrical / Environmental / Mechanical	
Power Consumption	37 W typical
Optical Connector	SC/APC , E2000-APC
RF Connector	F-type , RG-59 cable type
Control Interface	SNMP Protocol Ethernet
Dimensions, cm W x H x D	48.2 x 4.45 x 37.5
Weight, kg	1.24
Temperature, C, Operational	0 to 50
Temperature, C, Storage	-20 to 60
Humidity	85%, noncondensing, max.

Notes:
1. Typical CORWave II operational ranges are 4 to 16 wavelengths, up to 65km (SMF-28 single mode fibre, 0.2dB/km loss).
2. Link performance based on 8 wavelengths over 40km with one EDFA and optical passive at the receiver, 77 NTSC channels measured according to standard procedures.
3. CNR and CSO/CTB may degrade up to 0.5 and 2.0 dB, respectively, over full operating temperature range and overall polarization states. CNR will continue to degrade as distance increases.