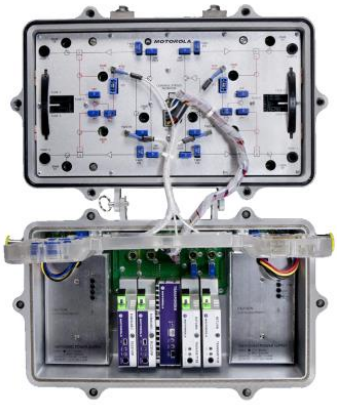
ARRIS VTN 244

FIBER DEEP 2X2 OPTICAL NODE



Arris Versatile Telecommunications Node series is designed to meet the growing need for delivering fiber deeper into operator's networks. The VTN244 shares the same housing platform as the standard VTN123 platform. Additional premium features in-clude forward path segmentation, return path segmentation, redundant power supplies and local channel injection. The node is Electronics Package (E-Pack) based to enable ease of maintenance.

- 1006 MHz Gallium Arsenide (GaAs)
- Four high level outputs 55 dBmV
- Forward Segmentation or Redundancy
- Return Segmentation or Redundancy
- Redundant Power Supplies
- FP/DFB/CWDM reverse transmitters
- Local Channel Injection
- 100/240V AC and 24/9 0 V powering
- Euro-DOCIS Status Monitoring
- Optical AGC
- 15A Power Passing
- RF –20 dB test point
- IP68 Weather Rating

OPTICAL RECEIVER	
Optical Input Level	-7-0 dBm
Optical Wavelength	1100-1600 nm
Input Noise Current	7.0 pA/Hz
Optical Test Point	1 V/mW
Optical Connector	SC/APC
Optical Input Return Loss	45 dB
Optical AGC Range	-7-0 dBm
Number of Optical	Up to two, Plug in
RF FORWARD PATH	
Downstream Frequency	54–1006 MHz
Output Level	55 dBmV
Level Flatness	±1.0 dB
RF Test Point	-20 dB
Output Slope	8-18 dB
RF Output Return Loss	16 dB
Diplex Splits	5-42/54-1003MHz 5-65/85–1003 MHz 5-85/104-1003 MHz
REVERSE PATH	
Upstream Frequency	5-200 MHz
Level Flatness	±1.0 dB
RF Test Point	-20 dB
Ingress Control States	0, -6, -40 dB

PERFORMANCE	
Composite Triple Beat	-69 dBc
Composite Second Order	-63 dBc
Composite Carrier Noise	51 dB
System M, 79 analog Channels, 55.25 MHz through 547.25 MHz plus 75 digital Channels , 552 MHz through 1002 MHz at -6 dB. +44 dBmV Output at 547.25 MHz with 7.5 dB linear tilt from 54 to 547.26 MHz LM1000E9 or equivalent Transmitter through 20 km, 0 dBm at Node Input	
MECHANICAL/ENVIRONMENTAL	
Protection Class	IP65
Weight	10.5 kg
Dimensions (cm)	38.0 L x 23.3 W x 16.5 D
Operating Temperature	-40°C to +60°C
Power Consumption	<75 W
AC Current	15A
REVERSE PATH TRANSMITTERS	
FP 1310 nm	
Output Power	0 dBm
NPR	38/9 dB
Power Consumption	2.5 W
DFBT1310 nm	
Output Power	3 dBm
NPR	40/11 dB

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TRANSPONDER		DFBT CWDM	
Euro-DOCSIS	Version 2.0	Output Power	3 dBm
HMS Monitoring Protocol	SNMPv1	NPR	40/13 dB
DOCSIS Monitoring	SNMPv1, v2, v3	Power Consumption	3.0 W
TX Frequency Range	5-65 MHz	Wavelengths	16
TX Output Power	8-58 dBmV	Number of Transmitters	Up to two, Plug in

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