ARRIS SG 4000

MODULAR OPTICAL NODE PLATFORM

Der SG 4000 Modular-Node wird den Anforderungen moderner Kabelnetzarchitekturen durch seine enormen Segmentierungs- und Erweiterungsmöglichkeiten gerecht. Mittels einer 4x4-Konfiguration können Down- und Upstreams flexibel segmentiert werden.

Mit Ausrichtung auf Fiber-Deep-Konzepte sind Module wie optische Verstärker, optische Switches sowie optische Filed-Passiva für den SG4000 vorgesehen. Docsis-Transponder-Module sind für Monitoring und Steuerung des SG4000 verfügbar.

- 1 GHz E-GaAs Leistung
- Bis zu vier optische Empfänger
- Bis zu vier analoge optische Transmitter
- 2x 5-65 MHz digitaler Rückweg
- Sechs HF/AC-Ports für benutzerdefinierte Installationen
- Docsis-kompatibler Transponder zur Statusüberwachung
- Hot-Swap-fähige Module
- Benutzerfreundliches Faser-Management
- Redundante Stromversorgung
- 15A Stromdurchlass

SPEZIFIKATIONEN

OPTICAL RECEIVER	UNITS	STANDARD SLOPE	ULTRA SLOPE
Optical Wavelength	nm	1310 ± 20 nm, 1550 ± 30 nm	
Optical Input Power Range	dBm	–3.0 to +2.0 continuous	
Optical Connector Type		SC/APC	
Optical Return Loss	dB	45 min.	
RF			
Operational Bandwidth [17]	MHz	104 to 1002 MHz	
Flatness [1]	dB	±0.75	
Output Linear Tilt	dB	14.0 ± 1.0 18.0 ± 1.0	
Level Stability [2]	dB	± 1.5	
RF Output Test Points [7]	dB	–20 ± 1.0	
RF Output Impedence [4]	Ohms	75	
RF Output Return Loss [8]	dB	16	
STATION PERFORMANCE			
Reference Frequency	MHz	1002/550/104	
Reference Output Level 79 analog chs/450 MHz QAM dBmV [3]	dBmV	55/48/41	60/51/43
Distortion Performance Composite Triple Beat (CTB) [5, 13] Composite Second Order (CSO)) [5, 6, 13] Carrier to Composite Noise (CCN)	dBc dBc dBc	–67 –64 50.5	–62 –60 50.0
Reference Frequency	MHz	1002/54	
Reference Output Level 948 MHz QAM [3]	dBmV	55/41	60/42
Distortion Performance NPR [13, 15] MER [13, 16]		44 41	- -
AC Input Current @90 VAC [10, 12] @44 VAC [10, 12]	Ampere	3.57 5.82	
Hum Modulation [9]	dBc	–60	
Port-to-Port Isolation [11]	dB	65	
AC Bypass Current (all ports)	Ampere	15	

MECHANICAL/ENVIRONMENTAL			
Dimensions (L x W x D)	inches mm	22.8 x 11 x 10.6 579.12 x 279.40 x 269.24	17.9 x 15.8 x 7.9 454.66 x 401.32 x 200.66
Weight	lb kg	48 21.77	37.4 16.96
Mounting		Aerial	Pedestal
Protection Class		IP68	
Operating Temperature Range	°C °F	–40 to +60 –40 to 140	

Notes:
1. Operating passband of station
2. Over the stated Operating temperature range
3. @ 0 dBm optical input power, 20 km optical link, 0 dBm optical input, GX2 transmitter
4. Specified at the housing cable entry facility.
5. Measured with CW carriers and spectrum analyzer over specified temperature range. References are typical across the band of interest. *
6. Refers only to beat clusters that fall 0.75 MHz and 1.25 MHz above the subject picture carrier.
7. Test points should be used with GFAL adapter.
8. Match measurement at the station input and output, cable- entry facilities, at the specified passbands for operational gain.
9. Measured with the AC bypass current for a passband of 11 MHz to 1002 MHz
10. Measured at the power connector.
11. Fmin to 1002 MHz
12. Stated in RMS continuous.
13. Typical performance over the stated temperature range in a cascade.
14. Stated specification and performances are referenced with the use of ARRIS accessories. The noted parameters will not be supported when third party accessories are employed.
15. NPR (Noise Power Ratio) is measured at the at center frequency of the band of interest with a full noise load
16. MER (Modulation Error Ratio) is measured with a BER/MER analyzer and a source using an J.83, Annex C datastream.
17. Roll-off from 105 MHz to 102 MHz is < 1.0 dB. Groupd Delay from 103.25 MHz to 105.25 MHz is < 10 ns.

Specifications are compliant with the test methods as stated in NCTA Recommended Practices for Measurements on Cable.
All specifications are stated as worst-case over temperature unless otherwise noted.