



Simple | Easy | Flexible | SOLiD

SOLiD GENESIS™ n78 DAS

The most advanced, flexible, easy-to-deploy DAS available

SOLiD GENESIS™ n78 DAS is a new wireless coverage platform for 5G, designed to meet the evolving requirements of all scales, from small to large venues.

The GENESIS n78 DAS approach incorporates innovative software and hardware features that simplify installation and configuration, delivers 100% user control, and increases flexibility for all verticals and applications.



GENESIS n78 System Specifications

GENESIS n78 General Specifications

Item	Specification	Remark
Frequency Band	3300–3800 MHz	
Instantaneous RF Bandwidth	Input: max. 100 MHz per gRFU port/Output: max. 220 MHz per PA	
Technology	5G NR	
Transmission Capacity	10 Gbps	per fiber
Transmission Distance	< 20 km @ optic, < 100 m @ twisted wire (Cat 6A)	
VSWR	< 1.4:1	
Frequency Error	±0.01 ppm	
System Delay	< 8 µsec, +0.5 µsec raise per node in daisy chain	

GENESIS n78 Mechanical Specifications

Item	Dimensions (W x H x D)	Weight	Power Consumption	Power Connector Type
UPOI	19" x 1U x 475 mm	31 kg	25 W (with UPIUs fully loaded)	D-SUB 25P male
gRFU	19" x 1U x 420 mm	6.5 kg	145 W (with fully loaded, incl. UPOI)	AC: IEC 320/C14, DC: C10-730511-Z2P
gMU	19" x 1U x 420 mm	5.2 kg	90 W (with fully loaded)	AC: IEC 320/C14, DC: C10-730511-Z2P
gHCU	19" x 1U x 450 mm	6.9 kg	820 W (with 8 copper gLRNc)	AC: IEC 320/C14, DC: C10-730511-Z2P
gHOU	19" x 1U x 420 mm	4.9 kg	80 W (with fully loaded)	AC: IEC 320/C14, DC: C10-730511-Z2P
gLRNc*	231 x 231 x 80 mm	3.8 kg	75 W (with LRFUs fully loaded)	RJ45
gLRNo*	231 x 231 x 80 mm	3.8 kg	70 W (with LRFUs fully loaded)	Terminal block
gLRN OCT*	260 x 260 x 72.5 mm	3.4 kg	70 W (with LRFUs fully loaded)	RJ45/Terminal block
EPSU	19" x 1U x 374 mm	10.1 kg	910 W per 1 HOPSU (Max. 2730 W)	AC: IEC 320/C20, DC: -48 V, 17.7 A
gMRN	310 x 390 x 170 mm	19.3 kg	170 W (with MRFUs fully loaded)	Circular push pull connectors
gHRN	310 x 390 x 170 mm	18 kg	370 W (with HRFUs fully loaded)	Circular push pull connectors

*Based on the integrated antenna type. LRNc/gLRNo/gLRN OCT come in both internal and external antenna types.

GENESIS n78 Connector Types, Cooling Fans and Noise Level Specifications

Item	Input Connector Type	Output Connector Type	Input Voltage	Cooling Fans	Noise Level
UPOI	24 x 4.3-10_F port for RAN	24 x QMA_F ports for gRFU	Powered by gRFU	Yes	Max. 65dBA
gRFU	8 x DL/UL ports: QMA_F for RAN 8 x Monitoring port: MCX_F for DCU	2 x Optic ports for gMU	AC 110/220 V, DC -48 V	Yes	Max. 65dBA
gMU	8 x Optic port for gRFU	12 x Optic ports for remotes or hubs	AC 110/220 V, DC -48 V	Yes	Max. 65dBA
gHCU	4 x Optic port for gMU	1 x Optic port for gHCU 8 x PoE ports: RJ-45 for gLRNc	AC 110/220 V, DC -48 V	Yes	Max. 65dBA
gHOU	2 x Optic port for gMU	2 x Optic port for daisy chain wired gHOU 12 x Optic ports for gLRNo	AC 110/220 V, DC -48 V	Yes	Max. 65dBA
gLRNc	2 x PoE port: RJ45 for HCU	4 x NEX10_F ports for Ext. ANT's	DC 57 V @ PoE from gHCU	No	N/A
gLRNo	1 x Optic port for gMU or gHOU	1 x Optic port for gLRNo 4 x NEX10_F ports for Ext. ANT's	DC 57 V @ Power from EPSU	No	N/A
gLRN_OCT	1 x Optic port for gMU or gHOU 1 x PoE port: RJ45 for HCU	1 x Optic port for gLRNo 1 x PoE port: gLRN_OCT	DC 57 V @ Power from EPSU	No	N/A
EPSU	D-SUB 15P	24 x DC power feeding for gLRNo	AC 110/220 V, DC -48 V	Yes	Max. 65dBA
gMRN	1 x Optic port for gMU or gHOU	1 x Optic port for daisy-chained gMRN 1 x Optic port for expansion gMRN	AC 110/220 V, DC -48 V	No	N/A
gHRN	1 x Optic port for gMU or gHOU	1 x Optic port for daisy-chained gHRN 1 x Optic port for expansion gHRN	AC 220 V, DC -48V	No	N/A

Connect with SOLiD

SOLiD helps people stay connected and safe in a rapidly changing world through a portfolio of the digital DAS for the various venues. SOLiD enables indoor and outdoor cellular and public-safety communications at some of the world's best-known and most challenging venues including leading hospitals; professional and college sports venues; government, university and Fortune corporate buildings and campuses; international airports and metropolitan subways.

For more information or complete technical specifications, please visit our website or contact us via email or phone.

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February 2023



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