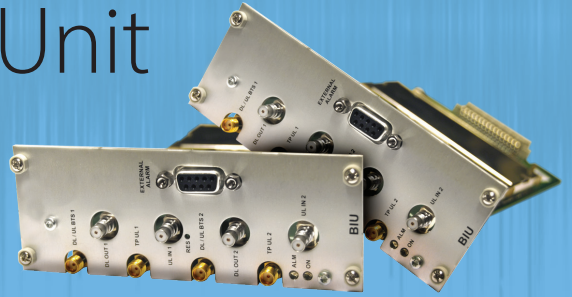




# Base Station Interface Unit (NA/EU)



The **RF Experts**

The Base Station Interface Unit (BIU) is the RF interface between the Radio Base Station and the Fiber-DAS system. This unit monitors the signal level from the base station and has settable attenuators both in the uplink and downlink paths.

The BIU connects to the Point of Interconnect (POI) which distributes the signals over the fiberoptic interfaces belonging to the same sector.

## KEY FEATURES

- Large selection of frequency bands available.
- Duplex or non-duplex options.
- Radio access technology agnostic.
- Multi operator and multi carrier.
- Two separate RF paths.
- Options with high or low input depending on type of BTS connection.
- Test ports for checking signal levels without interrupting service.
- Completely software monitored and controlled.
- Settable supervision thresholds for high/low operator input signals.
- External alarm interface with inputs/outputs.
- RoHS Compliant.

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## GENERAL SPECIFICATIONS

Parameter	Note	Standard	Low Level	Parameter
<b>Maximum input power non-destructive</b>	Composite	36	20	dBm
<b>Recommended RF input level</b>	Composite	13 to 33	-10 to +10	dBm
<b>Alarm high input level</b>		>33	>31	dBm
<b>Alarm low input level</b>		<13	<-13	dBm
<b>Max Gain uplink</b>	88-900 MHz	20	>20	dB
	1000-2600 MHz	10	>10	dB
<b>Gain downlink</b>		-13	>20	dB
<b>Attenuation settings uplink and downlink</b>		0 -30	0 -30	dB
<b>Isolation between ports</b>		>60		dB
<b>Isolation between uplink and downlink ports (unduplexed)</b>		>70		dB
<b>BTS RF ports/Test ports</b>		SMA F		
<b>Interconnecting ports</b>		QMA F		
<b>Power Consumption</b>		<15		W
<b>Width/Height</b>	Rack Units	2/3		U
<b>Temperature range operational</b>	Non-condensing	0-45		°C

## FREQUENCY BANDS NORTH AMERICA

Band	Frequency UL (MHz)	Frequency DL (MHz)	Standard Part Num	Low Level Part Num
<b>VHF</b>	136-174	136-174	DBI 313	DBI 413
<b>UHF</b>	450-470	450-470	DBI 314	DBI 414
<b>LTE 700 Lower</b>	698-716	728-746	DBI 307	DBI 407
<b>LTE 700 Upper</b>	777-787	746-756	DBI 304	DBI 404
<b>PS700</b>	799-805	769-775	DBI 306	DBI 406
<b>800 SMR IDEN</b>	806-824	851-869	DBI 303	DBI 403
<b>850 Cellular</b>	824-849	869-894	DBI 308	DBI 408
<b>PCS 1900</b>	1850-1915	1930-1995	DBI 319	DBI 419
<b>AWS 2100</b>	1710-1780	2110-2180	DBI 321	DBI 421
<b>LTE 2600</b>	2500-2570	2620-2690	DBI 326	DBI 426

## FREQUENCY BANDS EUROPE

Band	Frequency UL (MHz)	Frequency DL (MHz)	Standard Part Num	Low Level Part Num
<b>TETRA</b>	380-385	390-395	DBI 301	DBI 401
<b>DD 800</b>	832-862	791-821	DBI 305	DBI 405
<b>GSM-R 900</b>	876-880	921-925	DBI 310	-
<b>E-GSM 900</b>	880-915	925-960	DBI 309	DBI 409
<b>DCS 1800</b>	1710-1785	1805-1880	DBI 318	DBI 418
<b>UMTS 2100</b>	1920-1980	2110-2170	DBI 320	DBI 420
<b>LTE 2600</b>	2500-2570	2620-2690	DBI 326	DBI 426

Other Frequency bands are available upon request.

## OPTIONS

**Duplex** Yes/No\*

**Input Level** Standard/Low power

\*Non duplex version does not have test ports, they are replaced with UL ports.  
Normal power is standard duplexed, low level is standard non-duplexed.

