



TECHNICAL NOTE

System Connection in iBwave Design TE Connectivity Prism – Spectrum Product Line

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OVERVIEW

This document explains the procedure required to use the new components for the TE Connectivity InterReach Prism[™] products. It applies to iBwave Design 5.3 and higher.

The following topics are covered:

- ► BASIC CONFIGURATION
- N HOST UNIT
- SINGLE-BAND and MULTI-BAND REMOTE UNITS
- VUPDATING IBWAVE DESIGN FILES WITH TE CONNECTIVITY INTERREACH PRISM COMPONENTS
- > PRISM SPECTRUM COMPONENTS IBWAVE DESIGN DATABASE
- └ CONTACTING CUSTOMER CARE



BASIC CONFIGURATION

A basic InterReach Prism[™] configuration includes the following units:

- 1 Host Unit (HU)
- Remote Units Chassis
- RF Module(s)

InterReach Prism configurations can be expanded also as described below.



Configuration



HOST UNIT

The HU supports up to 8 BTSs through DART (Digital/Analog Radio Transceiver) cards. DARTs are swappable, which allows upgrades to additional bands by adding its DART card.

The following RF DARTs are supported by the HU:

- > 800 SMR Classic RF DART
- 850 Cellular Classic RF DART
- > 900 SMR Classic RF DART
- > 1900 PCS Super RF DART
- > 2100 AWS Super RF DART
- > 700 Lower ABC Super RF DART
- > 700 Upper C Super RF DART

Each of these RF DARTs has an input UL, DL ports and an output RF dummy port. The output port is used to connect the RF DART to the HU chassis using a dummy fiber connector (TE Connectivity "Dummy Fiber"). Once all the RF DARTs are connected to the HU, their services are available at the 8 output fiber ports on the HU. Then, by connecting one or more of those output fiber ports to their fiber modules, the RF signals can be transported to the DRU (DART Remote Unit).



Figure 1 – HU Chassis (Type = Misc, Model FWP-00000HUII)



Figure 2 – 850-CELL RF DART (Type = Media Converter, Model FWU-20000HUDART)





Figure 3 – A fiber module with 1 input and 2 output ports (Example: Type = Misc, Model FWU-SMCW1470XVR)



Figure 4 – Connection of the DART and fiber module to the chassis with TE Connectivity "Dummy Fiber" cables



Figure 5 – HU Chassis populated with an 850-CELL RF DART and a fiber module



SINGLE-BAND and MULTI-BAND REMOTE UNITS

The output port of the Host unit needs to be connected to the optical port of the Remote unit. Each Host unit supports up to 8 Remote units. The Host unit is connected to the Remote units through the Fiber Transceiver(s). Each Remote unit can be cascaded up to 8 more Remote units.



Figure 7 – A Host Unit connected to 1 Single-Band and 1 Dual-Band Remote Units then cascaded to 2 more Remote Units

There are four different sizes of chassis: Single-Band, Dual-Band, Tri-Band, and Quad-Band.









Single-Band Remote

Dual-Band Remote

Tri-Band Remote

Quad-Band Remote

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DIVERSITY and NON-DIVERSITY RF MODULES

The Prism Remote comprises from 1 to 4 RF Module slots. Each RF module will have up to two Classic DARTs or Single SuperDARTs, or one Dual SuperDART, and there can be up to:

- one RF Module in a Single-Band chassis
- two RF Modules in a Dual-Band chassis
- three RF Modules in a Tri-Band chassis
- four RF Modules in a Quad-Band chassis

There are two types of Remote units, Diversity and Non-Diversity Prism Remotes. The Non-Diversity RF module will have one RF connector for Rx/Tx. The Diversity RF module will have two RF connectors Rx/Tx and Rx only.



Rx/Tx (Antenna port for both UL/DL)

Non-Diversity RF module



Rx/Tx (Antenna port for both UL/DL)

- Rx (Antenna port for UL only)

Diversity RF module



REMOTE UNITS AVAILABLE

The following remote units are available.

ТҮРЕ	MODEL #	DESCRIPTION
Media Converter	FWP-5210000MOD	FlexWave Prism - 6.5 W 900 ESMR Module - Non-Diversity
Media Converter	FWP-6210000MOD	FlexWave Prism - 6.5 W E-GSM Module - Non-Diversity
Media Converter	FWP-7410000MOD	FlexWave Prism - DCS1800 Module - Non-Diversity
Media Converter	FWP-7426000MOD	FlexWave Prism - 20W DCS1800 Module - Diversity
Media Converter	FWP-8410000MOD	FlexWave Prism - 20 W PCS1900 - Non-Diversity
Media Converter	FWP-8420000MOD	FlexWave Prism - 20 W PCS1900 Module -Diversity
Media Converter	FWP-8810000MOD	FlexWave Prism - 40 W PCS1900 - Non-Diversity
Media Converter	FWP-8820000MOD	FlexWave Prism - 40 W PCS1900 Module -Diversity
Media Converter	FWP-9410000MOD	FlexWave Prism - 20 W UMTS2100 Module - Non-Diversity
Media Converter	FWP-9426000MOD	FlexWave Prism - 20 W UMTS2100 Module - Diversity
Media Converter	FWP-A410000MOD	FlexWave Prism - 20 W AWS2100 Module - Non-Diversity
Media Converter	FWP-A420000MOD	FlexWave Prism - 20 W AWS2100 Module - Diversity
Media Converter	FWP-A810000MOD	FlexWave Prism - 20 W AWS2100 Module - Non-Diversity
Media Converter	FWP-A820000MOD	FlexWave Prism - 40 W AWS2100 Module - Diversity
Media Converter	FWP-B410000MOD	FlexWave Prism - 40 W CELL850 - Non-Diversity
Media Converter	FWP-B420000MOD	FlexWave Prism - 20 W CELL850 Module - Diversity
Media Converter	FWP-B810000MOD	FlexWave Prism - 40 W CELL850 - Non-Diversity
Media Converter	FWP-B820000MOD	FlexWave Prism - 40 W CELL850 Module - Diversity
Media Converter	FWP-K220000MOD	FlexWave Prism - 6.5 W P-GSM Module - Diversity
Media Converter	FWP-U416000MOD	FlexWave Prism - 20 W 700 LTE-UPPER C / SISO Module - Non-Diversity

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UPDATING IBWAVE DESIGN FILES WITH TE CONNECTIVITY INTERREACH PRISM COMPONENTS

According to the product specs received from TE Connectivity, we have modeled this new version in the best possible way with the components types that are currently available in iBwave Design. This version benefits from the new component type called "Media Converter" that allows to associate the component with one or several systems, which are used for the DART cards.

Unfortunately, it is not possible to automatically replace the previous version of TE Connectivity Prism components by the new ones as the components have been modeled with other categories.

Once the new components have been imported to the database, you can update iBwave Design files that include TE Connectivity Prism components in the following manner:

- 1. Delete the TE Connectivity Prism components in your design.
- 2. Add the new TE Connectivity Prism components

A quick way to find the new components is to use the Components Browser. Select **TE Connectivity** as the manufacturer, and type Prism as the filter criteria (see screen capture below), then drag the components to the design.

NOTE

Components tagged with the "Obsolete" description should no longer be used.

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-	TE Connectivity	FWP-6210000MCD / FWP-7410000M	[Obsolete] Tri Band G5M900 / DCS1800 / UMTS2100 Module - Non-Diversity		-
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Figure 8 – Components Browser in iBwave Design

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PRISM - SPECTRUM COMPONENTS – iBWAVE DESIGN DATABASE

The following components are available in the iBwave Design database.

Connector Generic LC LC Type Connector Connector LGC Wireless FME Male FME Male Connector for 75 ohm CATV Cable Connector Generic QMA-M QMA Male Connector - Straight for TWB4001 3/8' Cable Connector Generic SC-APC Fiber Optic Connector - SC-APC Cable TE Connectivity 300469-0 RG-6 Coax Cable Cable TE Connectivity Coaxial 50 ohms - coaxial cable (used to coment DAS Cable TE Connectivity Coaxial 50 ohms - coaxial cable (used to coment DAS Cable TE Connectivity Coaxial To ohms - coaxial cable (used to coment DAS Cable TE Connectivity RG-11 75 Ohms - coaxial cable of A AWG Sold Copper Media Converter TE Connectivity FWU-40000HUDART Spectrum-Prism, 800 SMR, Classic RF DART Media Converter TE Connectivity FWU-40000HUDART Spectrum-Prism 700 LTE Lower ABC, Single Super RF DART Media Converter TE Connectivity FWU-40000HUDART Spectrum-Prism 700 LTE Lower ABC, Single Super RF DART Media Converter TE Connectivity FWU-40000HUDART <t< th=""><th>ТҮРЕ</th><th>MANUFACTURER</th><th>MODEL</th><th>DESCRIPTION</th></t<>	ТҮРЕ	MANUFACTURER	MODEL	DESCRIPTION
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Media ConverterTE ConnectivityFWU-40000HUDARTSpectrum-Prism, 800 SMR, Classic RF DARTMedia ConverterTE ConnectivityFWU-50000HUDARTSpectrum-Prism, 900 SMR, Classic RF DARTMedia ConverterTE ConnectivityFWU-86000HUDARTSpectrum-Prism 1900 PCS, Single Super RF DARTMedia ConverterTE ConnectivityFWU-40000HUDARTSpectrum-Prism 2100 AWS, Single Super RF DARTMedia ConverterTE ConnectivityFWU-40000HUDARTSpectrum-Prism 2100 AWS, Single Super RF DARTMedia ConverterTE ConnectivityFWU-40000HUDARTSpectrum-Prism 700 LTE Lower ABC, Single Super RFMedia ConverterTE ConnectivityFWU-40000HUDARTSpectrum-Prism 700 LTE Upper C, Single Super RFMedia ConverterTE ConnectivityFWP-5210000MODFlexWave Prism - 6.5 W 900 ESMR Module - Non- DiversityMedia ConverterTE ConnectivityFWP-6210000MODFlexWave Prism - 6.5 W E-GSM Module - Non-DiversityMedia ConverterTE ConnectivityFWP-7426000MODFlexWave Prism - 20W DCS1800 Module - Non-DiversityMedia ConverterTE ConnectivityFWP-8410000MODFlexWave Prism - 20 W PCS1900 - Non-DiversityMedia ConverterTE ConnectivityFWP-882000MODFlexWave Prism - 40 W PCS1900 - Non-DiversityMedia ConverterTE ConnectivityFWP-9410000MODFlexWave Prism - 20 W UMTS2100 Module - DiversityMedia ConverterTE ConnectivityFWP-882000MODFlexWave Prism - 20 W UMTS2100 Module - DiversityMedia ConverterTE ConnectivityFWP-9426000MODFlexWave Prism - 20 W UMTS2100 Module - Diversit	Media Converter	TE Connectivity	FWU-20000HUDART	Spectrum-Prism, 850 CELL, Classic RF DART
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Media ConverterTE ConnectivityFWP-6210000MODFlexWave Prism - 6.5 W E-GSM Module - Non-DiversityMedia ConverterTE ConnectivityFWP-7410000MODFlexWave Prism - DCS1800 Module - Non-DiversityMedia ConverterTE ConnectivityFWP-7426000MODFlexWave Prism - 20W DCS1800 Module - DiversityMedia ConverterTE ConnectivityFWP-8410000MODFlexWave Prism - 20W DCS1900 - Non-DiversityMedia ConverterTE ConnectivityFWP-8420000MODFlexWave Prism - 20 W PCS1900 - Non-DiversityMedia ConverterTE ConnectivityFWP-8420000MODFlexWave Prism - 20 W PCS1900 - Non-DiversityMedia ConverterTE ConnectivityFWP-8420000MODFlexWave Prism - 40 W PCS1900 - Non-DiversityMedia ConverterTE ConnectivityFWP-8820000MODFlexWave Prism - 40 W PCS1900 - Non-DiversityMedia ConverterTE ConnectivityFWP-8820000MODFlexWave Prism - 40 W PCS1900 Module - DiversityMedia ConverterTE ConnectivityFWP-9410000MODFlexWave Prism - 20 W UMTS2100 Module - Non-DiversityMedia ConverterTE ConnectivityFWP-9426000MODFlexWave Prism - 20 W UMTS2100 Module - Non-DiversityMedia ConverterTE ConnectivityFWP-9426000MODFlexWave Prism - 20 W UMTS2100 Module - DiversityMedia ConverterTE ConnectivityFWP-9426000MODFlexWave Prism - 20 W UMTS2100 Module - Non-DiversityMedia ConverterTE ConnectivityFWP-9426000MODFlexWave Prism - 20 W UMTS2100 Module - Non-Diversity	Media Converter	TE Connectivity	FWP-5210000MOD	FlexWave Prism - 6.5 W 900 ESMR Module - Non- Diversity
Media ConverterTE ConnectivityFWP-7410000MODFlexWave Prism - DCS1800 Module - Non-DiversityMedia ConverterTE ConnectivityFWP-7426000MODFlexWave Prism - 20W DCS1800 Module - DiversityMedia ConverterTE ConnectivityFWP-8410000MODFlexWave Prism - 20 W PCS1900 - Non-DiversityMedia ConverterTE ConnectivityFWP-8420000MODFlexWave Prism - 20 W PCS1900 Module - DiversityMedia ConverterTE ConnectivityFWP-8420000MODFlexWave Prism - 20 W PCS1900 Module - DiversityMedia ConverterTE ConnectivityFWP-8820000MODFlexWave Prism - 40 W PCS1900 - Non-DiversityMedia ConverterTE ConnectivityFWP-8820000MODFlexWave Prism - 40 W PCS1900 Module - DiversityMedia ConverterTE ConnectivityFWP-8820000MODFlexWave Prism - 40 W PCS1900 Module - DiversityMedia ConverterTE ConnectivityFWP-9410000MODFlexWave Prism - 20 W UMTS2100 Module - Non-DiversityMedia ConverterTE ConnectivityFWP-9426000MODFlexWave Prism - 20 W UMTS2100 Module - DiversityMedia ConverterTE ConnectivityFWP-9426000MODFlexWave Prism - 20 W UMTS2100 Module - DiversityMedia ConverterTE ConnectivityFWP-9426000MODFlexWave Prism - 20 W UMTS2100 Module - DiversityMedia ConverterTE ConnectivityFWP-9426000MODFlexWave Prism - 20 W UMTS2100 Module - Diversity	Media Converter	TE Connectivity	FWP-6210000MOD	FlexWave Prism - 6.5 W E-GSM Module - Non-Diversity
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Media Converter TE Connectivity FWP-9426000MOD FlexWave Prism - 20 W UMTS2100 Module - Diversity Media Converter TE Connectivity FWP-A410000MOD FlexWave Prism - 20 W AWS2100 Module - Non-Diversity	Media Converter	TE Connectivity	FWP-9410000MOD	FlexWave Prism - 20 W UMTS2100 Module - Non- Diversity
Media Converter TE Connectivity FWP-A410000MOD FlexWave Prism - 20 W AWS2100 Module - Non- Diversity	Media Converter	TE Connectivity	FWP-9426000MOD	FlexWave Prism - 20 W UMTS2100 Module - Diversity
	Media Converter	TE Connectivity	FWP-A410000MOD	FlexWave Prism - 20 W AWS2100 Module - Non- Diversity

Technical Note / System Connection in iBwave Design – TE Connectivity Spectrum Product Line



REMOTE UNITS AVAILABLE

ТҮРЕ	MANUFACTURER	MODEL	DESCRIPTION
Media Converter	TE Connectivity	FWP-A420000MOD	FlexWave Prism - 20 W AWS2100 Module - Diversity
Media Converter	TE Connectivity	FWP-A810000MOD	FlexWave Prism - 20 W AWS2100 Module - Non- Diversity
Media Converter	TE Connectivity	FWP-A820000MOD	FlexWave Prism - 40 W AWS2100 Module - Diversity
Media Converter	TE Connectivity	FWP-B410000MOD	FlexWave Prism - 40 W CELL850 - Non-Diversity
Media Converter	TE Connectivity	FWP-B420000MOD	FlexWave Prism - 20 W CELL850 Module - Diversity
Media Converter	TE Connectivity	FWP-B810000MOD	FlexWave Prism - 40 W CELL850 - Non-Diversity
Media Converter	TE Connectivity	FWP-B820000MOD	FlexWave Prism - 40 W CELL850 Module - Diversity
Media Converter	TE Connectivity	FWP-K220000MOD	FlexWave Prism - 6.5 W P-GSM Module - Diversity
Media Converter	TE Connectivity	FWP-U416000MOD	FlexWave Prism - 20 W 700 LTE-UPPER C / SISO Module - Non-Diversity



CONTACTING CUSTOMER CARE

If you encounter any problems using iBwave Design, or if you have any questions, please send your inquiries to Customer Care:

- **Email:** <u>support@ibwave.com</u>
- **Phone:** 1 514 397-0606, extension 610

You can also:

- Log into the iBwave Customer Portal, and create a request in the **My Cases** section: <u>http://www.ibwave.com/language/en-US/MyiBwave.aspx</u>
- Check if your questions have been answered in the Knowledge Base section of the iBwave Customer Portal

