

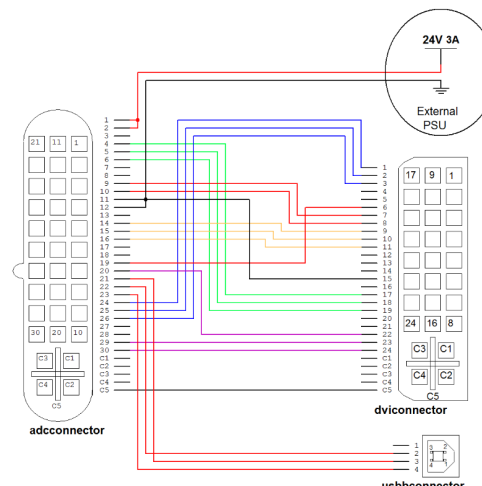
19051919

Multi-band Multi-standard Transceiver with Integrated Dual DACs and ADCs



Microsystem

Rev. no: 00
Publish Date: 08.10.2017



Product Overview

19091919 is a fully integrated, multi-band, multi-standard RFtransceiver for 3GPP (WCDMA/HSPA, LTE), 3GPP2 (CDMA2000) and 4G LTE applications, as well as for GSM pico BTS. It combines the LNA, PA driver, RX/TX mixers, RX/TX filters, synthesizers, RX gain control, and TX power control with very few external components.

Features & Benefits

- Single chip transceiver covering 0.3-3.8GHz frequency range
- Digital interface to baseband with integrated 12 bit D/A and A/D converters
- Fully differential baseband signals
- Few external component
- Programmable modulation bandwidth: 1.5, 1.75, 2.5, 2.75, 3, 3.84, 5, 5.5, 6, 7, 8.75, 10, 12, 14, 20 and 28MHz
- Supports both TDD and FDD operation modes
- Low voltage operation, 1.8V and 3.3V

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Technical Specifications

Coaxial GLink Input

Connector	BNC per IEC 61169-8 Annex A
Equalization	Automatic up to 10m

Fiber GLink Input

Connector	SC/PC, ST/PC, or FC/PC female housing
Max. Input Power	-3dBm
Wavelength	1310 nm to 1610nm
Optical Sensitivity	-25dBm
Fiber Size	Fiber Size 62mm core / 125mm overall

Re-clocked Coaxial GLink Output

Connector	Connector BNC per IEC 61169-8 Annex A
Signal Level	750mV minimum

Video Output

Connector	DVI-I (digital + analog)
Output Resolution	Up to HD (1920x1200) @ 60Hz or 50Hz maximum

DVI Digital Video Output

Voltage Swing	DVI-I (digital + analog)
Output Clock Jitter	Up to HD (1920x1200) @ 60Hz or 50Hz maximum
Differential Skew	50ps maximum

RGB Analog Video Output

Signal Level	
Video	1V p-p nominal RGB
Sync	4V
Impedance	75Ω
DC Offset	0V ±0.5V

Electrical

Operating conditions	-30°C ~ +60°C (-22°F ~ +140°F) Less than 90% RH * Start up should be done at above -30°C (-22°F)
Storage Conditions	-30°C ~ +60°C (-22°F ~ +140°F) Less than 90% RH
Voltage	+12V DC, Auto ranging 100-240VAC, 50/60Hz adapter included
Power	10 Watts
Voltage range	Auto ranging 100-240V AC, 12V DC10W (power adapter included)
Safety	Power adapter UL listed Complies with EU safety directive
EMI/RFI	Complies with FCC Part 15 Class AEU EMC Directive

Physical

Dimensions	7.2" L x 4.3" W x 1.0" H (166mm L x 110mm W x 26mm H)
With mounting flanges	7.2" L x 5.3" W x 1.0" H (166mm L x 136mm W x 26mm H)
Weight	0.85lbs (0.38kg)

Guarantee

2 years advanced replacement warranty

Ordering Information

DYG09	GLink to DVI converter
DYG25	GLink to DVI converter with WARP (provides landscape to portrait display orientation conversion support)

Connector	
+ SC	SC/PC
+ ST	ST/PC
+ FC	FC/PC

Case Option Suffix

DYG1985	Enclosure without mounting flanges
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Ordering Options

Fiber Connector must be specified at time of order Eg: Model +SC

Note: Enclosure with side mount flanges ships standard

Disclaimer

Those presented in this document, our research so far, our experience and knowledge within the information provided is accurate. In case of changes in operating conditions and methods of application, any information given in this document can not be considered as guarantees and preliminary tests are recommended. For more information and our technical team and our laboratory will provide support services.

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