

C-PCM-24S24G

iDoor Communication Module with a MultiTech Dragonfly™ embedded cellular modem, LTE/HSPA+ Support, Dual Antennas, and AT&T and Verizon Certification for US/Canadian Networks

NEW



iDor FCC RoHS COMPLIANT 2002/95/EC

Features

- Communication module with iDoor technology
- Ready-to-integrate MultiTech Dragonfly™ embedded cellular modem certified by AT&T and Verizon
- Supports B2/B4/B5/B12/B13 for LTE networks
- Supports B2/B4/B5 for UMTS/HSPA+ networks
- Operating Temperature: -40 ~ 85 °C / -40 ~ 185 °F
- Supports Windows 7/8.x/10 (64 bit) and Ubuntu 18.04 operating systems

Introduction

The PCM-24 series are communication modules equipped with Advantech's iDoor technology. The C-PCM-24S24G communication modules features a MultiTech Dragonfly™ embedded cellular modem, which is a ready-to-integrate CAT 4/CAT 1/CAT M1 LTE end-device certified by AT&T and Verizon. This ensures that Advantech's system platforms satisfy U.S. and Canadian network carrier requirements as certified end-devices.

Specifications

C-PCM-24S24G-4AV-1

General	
Host Interface	PCIe mini card (USB 2.0)
Dimensions	Module: 26.8 x 30 x 12.4 mm (1.06 x 1.18 x 0.49 in) I/O plate: 81 x 19.4 x 41 mm (3.19 x 0.76 x 1.61 in)
Wireless Module	MultiTech Dragonfly™ MTQ-LNA7-B02
Category	Category 4
SIM Holder	1 x Micro SIM (3FF)
Certification	FCC, UL/cUL, PTCRB, Verizon, AT&T
Power Consumption	712mA max @ 5V _{DC}
Antenna	690 ~ 960 MHz, 1710 ~ 2700 MHz
Cable	2*5P-2.0/micro USB 5P(M) 25 cm 90D
GNSS	Available upon request
Communication	
Frequency Band	LTE-FDD: B2(1900)/B4(AWS1700)/B5(850)/B12(700)/B13(700) WCDMA: B2(1900)/B4(AWS1700)/B5(850)
Data Throughput	LTE FDD data rate (Mbps): 150 (DL)/50 (UL) HSPA data rate (Mbps): 5.7 (DL)/5.7 (UL) DC-HSDPA data rate: 42(DL) /42 (UL)
Software	
OS Support	Windows 7/8/10 and Ubuntu 18.04
Environment	
Operating Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Relative Humidity	95% RH @ 40 °C, non-condensing

C-PCM-24S24G-1A-1

General	
Host Interface	PCIe mini card (USB 2.0)
Dimensions	Module: 26.8 x 30 x 12.4 mm (1.06 x 1.18 x 0.49 in) I/O plate: 81 x 19.4 x 41 mm (3.19 x 0.76 x 1.61 in)
Wireless Module	MultiTech Dragonfly™ MTQ-LAT3-B02
Category	Category 1
SIM Holder	1 x Micro SIM (3FF)
Certification	FCC, UL/cUL, PTCRB, AT&T
Power Consumption	510mA max @ 5V _{DC}
Antenna	690 ~ 960 MHz, 1710 ~ 2700 MHz
Cable	2*5P-2.0/micro USB 5P(M) 25 cm 90D
GNSS	NA
Communication	
Frequency Band	LTE-FDD: B2(1900)/B4(AWS1700)/B5(850)/B12(700)/B13(700) WCDMA: B2(1900)/B5(850)
Data Throughput	LTE FDD data rate (Mbps): 10 (DL)/5 (UL) HSPA+ data rate: 21(DL) /5.76(UL)
Software	
OS Support	Windows 7/8/10 and Ubuntu 18.04
Environment	
Operating Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Relative Humidity	95% RH @ 40 °C, non-condensing

C-PCM-24S24G-1V-1

General	
Host Interface	PCIe mini card (USB 2.0)
Dimensions	Module: 26.8 x 30 x 12.4 mm (1.06 x 1.18 x 0.49 in) I/O plate: 81 x 19.4 x 41 mm (3.19 x 0.76 x 1.61 in)
Wireless Module	MultiTech Dragonfly™ MTQ-LVW3-B02
Category	Category 1
SIM Holder	1 x Micro SIM (3FF)
Certification	FCC, UL/cUL, Verizon
Power Consumption	450mA max @ 5V _{DC}
Antenna	690 ~ 960 MHz, 1710 ~ 2700 MHz
Cable	2*5P-2.0/micro USB 5P(M) 25 cm 90D
GNSS	NA
Communication	
Frequency Band	LTE-FDD: B2(1900)/B4(AWS1700)/B13(700)
Data Throughput	LTE FDD (Mbps): 10 (DL)/5 (UL)
Software	
OS Support	Windows 7/8/10 and Ubuntu 18.04
Environment	
Operating Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Relative Humidity	95% RH @ 40 °C, non-condensing

C-PCM-24S24G-MAV-1

General	
Host Interface	PCIe mini card (USB 2.0)
Dimensions	Module: 26.8 x 30 x 12.4 mm (1.06 x 1.18 x 0.49 in) I/O plate: 81 x 19.4 x 41 mm (3.19 x 0.76 x 1.61 in)
Wireless Module	MultiTech Dragonfly™ MTQ-MNA1-B02
Category	Category M1
SIM Holder	1 x Micro SIM (3FF)
Certification	FCC, UL/cUL, PTCRB, Verizon, AT&T
Power Consumption	176mA max @ 5V _{DC}
Antenna	690 ~ 960 MHz, 1710 ~ 2700 MHz
Cable	2*5P-2.0/micro USB 5P(M) 25 cm 90D
GNSS	Available upon request
Communication	
Frequency Band	LTE-UE: B2(1900)/B4(AWS1700)/B12(700) (AT&T) LTE-UE: B4(AWS1700)/B13(700) (Verizon)
Data Throughput	LTE UE data rate (Kbp): 300 (DL)/375 (UL)
Software	
OS Support	Windows 7/8/10 and Ubuntu 18.04
Environment	
Operating Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Relative Humidity	95% RH @ 40 °C, non-condensing

C-PCM-24S24G-420-1

General	
Host Interface	PCIe Mini Card (USB2.0)
Dimensions	UNO-420 Support Kit
Wireless Module	MultiTech Dragonfly™ MTQ-LNA7-B02
Category	Category 4
SIM Holder	1 x Micro SIM (3FF)
Certification	FCC, UL/cUL, PTCRB, Verizon, AT&T
Power Consumption	712mA max @5Vdc
Antenna	690-960 MHz, 1710-2700 MHz
Cable	2*5P-2.0/Micro USB 5P(M) 20cm
GNSS	Available upon request
Communication	
Frequency Band	LTE-FDD: B2(1900)/B4(AWS1700)/B5(850)/ B12(700)/B13(700) WCDMA: B2(1900)/B4(AWS1700)/B5(850)
Data Throughput	LTE FDD Data Rate (Mbps): 150 (DL)/50 (UL) HSUPA Data Rate (Mbps): 5.7 (DL)/5.7 (UL) DC-HSDPA Data Rate: 42(DL) /42 (UL)
Software	
OS Support	Windows 7/8/10 and Ubuntu 18.04
Environment	
Operating Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Relative Humidity	95% RH @ 40 °C, non-condensing

C-PCM-24S24G-430-1

General	
Host Interface	USB2.0
Wireless Module	MultiTech Dragonfly™ MTQ-LNA7-B02
Category	Category 4
SIM Holder	1 x Micro SIM (3FF)
Certification	FCC, UL/cUL, PTCRB, Verizon, AT&T
Power Consumption	712mA max @5Vdc
Antenna	700-960 MHz , 1710-2700 MHz
Cable	micro USB 5P(M)/1*4P-1.25 10cm
GNSS	Available upon request
Communication	
Frequency Band	LTE-FDD: B2(1900)/B4(AWS1700)/B5(850)/ B12(700)/B13(700) WCDMA: B2(1900)/B4(AWS1700)/B5(850)
Data Throughput	LTE FDD Data Rate (Mbps): 150 (DL)/50 (UL) HSUPA Data Rate (Mbps): 5.7 (DL)/5.7 (UL) DC-HSDPA Data Rate: 42(DL) /42 (UL)
Software	
OS Support	Windows 10 and Ubuntu 18.04
Environment	
Operating Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Relative Humidity	95% RH @ 40 °C, non-condensing

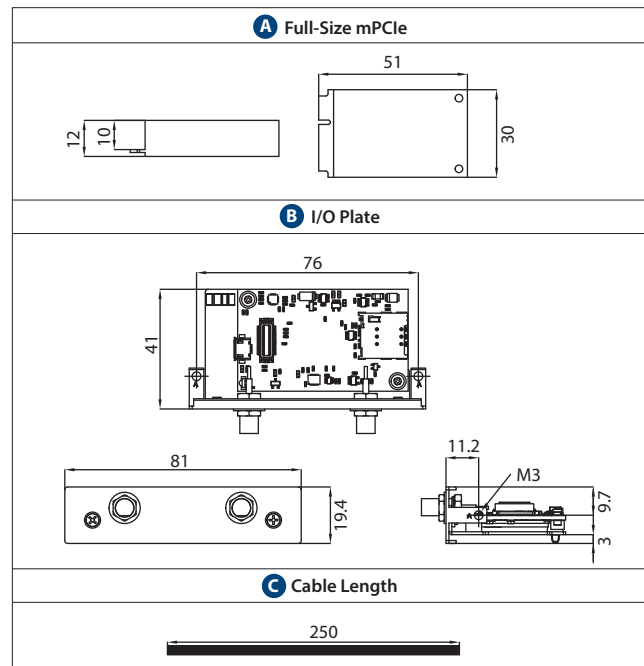
C-PCM-24S24G-227-1

General	
Host Interface	PCIe Mini Card (USB2.0)
Dimensions	UNO-2271 Support Kit
Wireless Module	MTQ-LNA7-B02
Category	Category 4
Telecom Approvals	Verizon, AT&T, PTCRB
Power Consumption	712mA max @ 5V _{DC}
Antenna	690-960 MHz 1710-2700 MHz 1750008303-01 Antenna AN0727-64SP6BSM 1750006264 Antenna SMA(F)/MHF 15cm SMALFN8-3150A-00X00R
Cable	1700031030-01 A cable 2*5P-2.0/Micro USB 5P(M) 25cm 90D
Communication	
Frequency Band	LTE-FDD: : B2/B4/B5/B12/B13 WCDMA: B2/ B4/B5
Data Throughput	LTE FDD Data Rate (Mbps): 150 (DL)/50 (UL) HSUPA Data Rate (Mbps): 5.7 (DL)/5.7 (UL) DC-HSDPA Data Rate: 42(DL) /42 (UL)
Software	
OS Support	Windows 7, 8 and 10 Linux By project support
Environment	
Operating Temperature	-40 ~ 85 °C (-40 ~ 185°F)
Relative Humidity	95% RH @ 40 °C, non-condensing

Regulations

C-PCM-24S24G is equipped with a MultiTech Dragonfly™ embedded cellular modem and complies with relevant regulations.

Dimensions



Ordering Information

- **C-PCM-24S24G-4AV-1** MultiTech iDoor module, LTE Cat. 4 for AT&T/Verizon
- **C-PCM-24S24G-1A-1** MultiTech iDoor module, LTE Cat. 1 for AT&T
- **C-PCM-24S24G-1V-1** MultiTech iDoor module, LTE Cat. 1 for Verizon
- **C-PCM-24S24G-MAV-1** MultiTech iDoor module, LTE Cat. M1 for AT&T/Verizon
- **C-PCM-24S24G-420-1** MultiTech kit for UNO-420, LTE Cat. 4 for AT&T/Verizon
- **C-PCM-24S24G-430-1** MultiTech kit for UNO-430, LTE Cat. 4 for AT&T/Verizon
- **C-PCM-24S24G-227-1** MultiTech kit for UNO-2271, LTE Cat. 4 for AT&T/Verizon