

ICC-IN-MODULE-JL

LTE CAT4 for Japan with Internal Antenna

Specification	<ul style="list-style-type: none"> ✦ LTE FDD: B1/B3/B8/B18/B19/B26 ✦ LTE TDD: B41 ✦ WCDMA: B1/B6/B8/B19 ✦ Carrier: NTT DOCOMO/ SoftBank/ KDD
Antenna	<ul style="list-style-type: none"> ✦ Built-in Antenna ✦ 1.1 dBi (895 MHz), 2.4 dBi (1950 MHz)
Data	<ul style="list-style-type: none"> ✦ LTE FDD: Max 150Mbps (DL)/Max 50Mbps (UL) ✦ LTE TDD: Max 130Mbps (DL)/Max 30Mbps (UL) ✦ WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL)
Output Power	<ul style="list-style-type: none"> ✦ Class 4 (33dBm±2dB) for GSM850 ✦ Class 4 (33dBm±2dB) for EGSM900 ✦ Class 1 (30dBm±2dB) for DCS1800 ✦ Class 1 (30dBm±2dB) for PCS1900 ✦ Class E2 (27dBm±3dB) for GSM850 8-PSK ✦ Class E2 (27dBm±3dB) for EGSM900 8-PSK ✦ Class E2 (26dBm±3dB) for DCS1800 8-PSK ✦ Class E2 (26dBm±3dB) for PCS1900 8-PSK ✦ Class 3 (24dBm+1/-3dB) for WCDMA bands ✦ Class 3 (23dBm±2dB) for LTE-FDD bands ✦ Class 3 (23dBm±2dB) for LTE-TDD bands
Consumption	<ul style="list-style-type: none"> ✦ 3.6mA @Sleep, Typ. ✦ 35mA @Idle
General Features	<ul style="list-style-type: none"> ✦ Temperature Range: -30°C to 55°C (-22°F to 131°F) ✦ Mini PCIe Package (LTE module) ✦ Bandwidth: 1.4/3/5/10/15/20MHz
Sensitivity	<ul style="list-style-type: none"> ✦ LTE B1: -101.5dBm (10M) ✦ LTE B2: -101dBm (10M) ✦ LTE B3: -101.5dBm (10M) ✦ LTE B4: -101dBm (10M) ✦ LTE B5: -101dBm (10M) ✦ LTE B7: -99.5dBm (10M) ✦ LTE B8: -101dBm (10M) ✦ LTE B12: -101dBm (10M) ✦ LTE B13: -100dBm (10M) ✦ LTE B14: -99dBm (10M) ✦ LTE B18: -101.7dBm (10M) ✦ LTE B19: -101.4dBm (10M) ✦ LTE B20: -102.5dB (10M) ✦ LTE B26: -101.5dBm (10M) ✦ LTE B28: -102dBm (10M) ✦ LTE B38: -100dBm (10M) ✦ LTE B40: -100dBm (10M) ✦ LTE B41: -99dBm (10M) ✦ LTE B66: -99dBm (10M) ✦ LTE B71: -100dBm (10M) ✦ WCDMA B1: -110dBm ✦ WCDMA B2: -110dBm ✦ WCDMA B4: -110dBm ✦ WCDMA B5: -110.5dBm ✦ WCDMA B6: -110.5dBm ✦ WCDMA B8: -110.5dBm ✦ WCDMA B19: -110.5dBm

ICC-EX-MODULE-JL

LTE CAT4 for Japan with External Antenna

Specification	<ul style="list-style-type: none"> ✦ LTE FDD: B1/B3/B8/B18/B19/B26 ✦ LTE TDD: B41 ✦ WCDMA: B1/B6/B8/B19 ✦ Carrier: NTT DOCOMO/ SoftBank/ KDDI
Antenna	<ul style="list-style-type: none"> ✦ SMA Omni-directional ✦ 3.05 dBi
Data	<ul style="list-style-type: none"> ✦ LTE FDD: Max 150Mbps (DL)/Max 50Mbps (UL) ✦ LTE TDD: Max 130Mbps (DL)/Max 30Mbps (UL) ✦ WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL)
Output Power	<ul style="list-style-type: none"> ✦ Class 4 (33dBm±2dB) for GSM850 ✦ Class 4 (33dBm±2dB) for EGSM900 ✦ Class 1 (30dBm±2dB) for DCS1800 ✦ Class 1 (30dBm±2dB) for PCS1900 ✦ Class E2 (27dBm±3dB) for GSM850 8-PSK ✦ Class E2 (27dBm±3dB) for EGSM900 8-PSK ✦ Class E2 (26dBm±3dB) for DCS1800 8-PSK ✦ Class E2 (26dBm±3dB) for PCS1900 8-PSK ✦ Class 3 (24dBm+1/-3dB) for WCDMA bands ✦ Class 3 (23dBm±2dB) for LTE-FDD bands ✦ Class 3 (23dBm±2dB) for LTE-TDD bands
Consumption	<ul style="list-style-type: none"> ✦ 3.6mA @Sleep, Typ. ✦ 35mA @Idle
General Features	<ul style="list-style-type: none"> ✦ Temperature Range: -30°C to 55°C (-22°F to 131°F) ✦ Mini PCIe Package (LTE module) ✦ Bandwidth: 1.4/3/5/10/15/20MHz
Sensitivity	<ul style="list-style-type: none"> ✦ LTE B1: -101.5dBm (10M) ✦ LTE B2: -101dBm (10M) ✦ LTE B3: -101.5dBm (10M) ✦ LTE B4: -101dBm (10M) ✦ LTE B5: -101dBm (10M) ✦ LTE B7: -99.5dBm (10M) ✦ LTE B8: -101dBm (10M) ✦ LTE B12: -101dBm (10M) ✦ LTE B13: -100dBm (10M) ✦ LTE B14: -99dBm (10M) ✦ LTE B18: -101.7dBm (10M) ✦ LTE B19: -101.4dBm (10M) ✦ LTE B20: -102.5dB (10M) ✦ LTE B26: -101.5dBm (10M) ✦ LTE B28: -102dBm (10M) ✦ LTE B38: -100dBm (10M) ✦ LTE B40: -100dBm (10M) ✦ LTE B41: -99dBm (10M) ✦ LTE B66: -99dBm (10M) ✦ LTE B71: -100dBm (10M) ✦ WCDMA B1: -110dBm ✦ WCDMA B2: -110dBm ✦ WCDMA B4: -110dBm ✦ WCDMA B5: -110.5dBm ✦ WCDMA B6: -110.5dBm ✦ WCDMA B8: -110.5dBm ✦ WCDMA B19: -110.5dBm

ICC-EX-MODULE-GL

LTE CAT4 for Global with External Antenna

Specification	<ul style="list-style-type: none"> ✦ LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28 ✦ LTE TDD: B38/B39/B40/B41 ✦ WCDMA: B1/B2/B4/B5/B6/B8/B19 ✦ Carrier: Deutsche Telekom/ Verizon/ AT&T/ Sprint/U.S. Cellular/ T-Mobile*/ Rogers*/ Telus* <p style="text-align: right;">*Under development</p>
Antenna	<ul style="list-style-type: none"> ✦ SMA Omni-directional ✦ 4.0 dBi
Data	<ul style="list-style-type: none"> ✦ LTE FDD: Max 150Mbps (DL)/Max 50Mbps (UL) ✦ LTE TDD: Max 130Mbps (DL)/Max 30Mbps (UL) ✦ WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL)
Output Power	<ul style="list-style-type: none"> ✦ Class 3 (23dBm±2dB) for LTE FDD bands ✦ Class 3 (23dBm±2dB) for LTE TDD bands ✦ Class 3 (24dBm+1/-3dB) for WCDMA bands ✦ Class E2 (27dBm±3dB) for GSM850 8-PSK ✦ Class E2 (27dBm±3dB) for EGSM900 8-PSK ✦ Class E2 (26dBm±3dB) for DCS1800 8-PSK ✦ Class E2 (26dBm±3dB) for PCS1900 8-PSK ✦ Class 4 (33dBm±2dB) for GSM850 ✦ Class 4 (33dBm±2dB) for EGSM900 ✦ Class 1 (30dBm±2dB) for DCS1800 ✦ Class 1 (30dBm±2dB) for PCS1900
Consumption	<ul style="list-style-type: none"> ✦ 3.6mA @Sleep, Typ. ✦ 35mA @Idle
General Features	<ul style="list-style-type: none"> ✦ Temperature Range: -30°C to 55°C (-22°F to 131°F) ✦ Mini PCIe Package (LTE module) ✦ Bandwidth: 1.4/3/5/10/15/20MHz
Sensitivity	<ul style="list-style-type: none"> ✦ LTE B1: -101.5dBm (10M) ✦ LTE B2: -101dBm (10M) ✦ LTE B3: -101.5dBm (10M) ✦ LTE B4: -101dBm (10M) ✦ LTE B5: -101dBm (10M) ✦ LTE B7: -99.5dBm (10M) ✦ LTE B8: -101dBm (10M) ✦ LTE B12: -101dBm (10M) ✦ LTE B13: -100dBm (10M) ✦ LTE B20: -102.5dB (10M) ✦ LTE B25: -99dBm(10M) ✦ LTE B28: -102dBm (10M) ✦ WCDMA B1: -110dBm ✦ WCDMA B2: -110dBm ✦ WCDMA B4: -110dBm ✦ WCDMA B5: -110.5dBm ✦ WCDMA B8: -110.5dBm

ORDERING INFORMATION

Part Number	Description	Included parts
ICC-IN-MODULE-JL	LTE CAT4 for Japan w/ internal antenna	12V/2A Power adapter*1 / USB cable*1
ICC-EX-MODULE-JL	LTE CAT4 for Japan w/ external antenna	12V/2A Power adapter*1 / USB cable*1 / External Antenna*2
ICC-EX-MODULE-GL	LTE CAT4 for Global w/ external antenna	12V/2A Power adapter*1 / USB cable*1 / External Antenna*2



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