

# Template:Networking rutxxx manual network mobile 4g

## Mobile

The **Mobile** section displays information about the mobile connection and the SIM card in use. The figure below is an example of the Mobile page:

[[File:{{{file\_mobile}}}]]

field name	description
Data connection state	Indicates whether the device has an active mobile data connection
IMEI	The IMEI (International Mobile Equipment Identity) is a unique 15 decimal digit number used to identify cellular modules. GSM network operators use the IMEI to identify devices in their networks
IMSI	The IMSI (international mobile subscriber identity) is a unique 15 decimal digit (or less) number used to identify the user of a cellular network
ICCID	SIM card's ICCID is a unique serial number used to identify the SIM chip
SIM card state	The current SIM card state. Possible values are: <ul style="list-style-type: none"><li>• <b>Ready</b> - SIM card is inserted and ready to be used</li><li>• <b>Inserted</b> - SIM card is inserted</li><li>• <b>Not inserted</b> - SIM card is not inserted</li><li>• <b>Unknown</b> - unable to obtain SIM card state value. Possible communication issue between the the device and the modem</li></ul>
Signal strength	Received signal strength indicator ( <b>RSSI</b> ) measured in dBm. Values closer to 0 indicate a better signal strength
Cell ID	The ID of the cell that the modem is currently connected to
Signal level measurements	Overall signal quality is defined by different measurements for different connection types. Short explanations and recommendations are provided below. Click <a href="#">here</a> for more in-depth information or click on one of the links below: <ul style="list-style-type: none"><li>• <b>4G</b><ul style="list-style-type: none"><li>- <b>RSRP</b> - reference signal received power, measured in dBm. Values closer to 0 indicate better signal strength</li><li>- <b>RSRQ</b> - reference signal received quality, measured in dB. Values closer to 0 indicate a better rate of information transfer</li><li>- <b>SINR</b> - signal-to-interference-plus-noise ratio, measured in dB. Higher values indicate a better rate of information transfer</li></ul></li><li>• <b>3G</b><ul style="list-style-type: none"><li>- <b>EC/IO</b> - downlink carrier-to-interference ratio. Values range from -20 to 0 (closer to 0 indicates better signal quality/cleanliness)</li><li>- <b>RSCP</b> - received signal code power. Values range from -124 to 0 (closer to 0 indicates better signal strength)</li></ul></li><li>• <b>2G</b><ul style="list-style-type: none"><li>- <b>RSSI</b> - received signal strength indicator, measured in dBm. Values closer to 0 indicate better signal strength</li></ul></li></ul>
Operator	Network operator's name
Operator state	Shows whether the network has currently indicated the registration of the mobile device. Possible values are: <ul style="list-style-type: none"><li>• <b>Unregistered</b> - not registered to a network and the device is not currently searching for a new operator to register to</li><li>• <b>Registered (home)</b> - registered, home network</li><li>• <b>Searching</b> - not registered to a network, but the device is currently searching for a new operator to register to</li><li>• <b>Network denied</b> - registration to network denied by operator</li><li>• <b>Unknown</b> - operator state is currently unknown</li><li>• <b>Registered (roaming)</b> - registered to network, roaming conditions</li></ul>
Connection type	Mobile connection connection type. Possible values are: <ul style="list-style-type: none"><li>• <b>2G</b>: 2G (GSM), 2G (GPRS), 2G (EDGE)</li><li>• <b>3G</b>: 3G (WCDMA), 3G (HSDPA), 3G (HSUPA), 3G (HSPA), 3G (HSPA+), 3G (DC-HSPA+), 3G (HSDPA+HSUPA), UMTS</li><li>• <b>4G</b>: 4G (LTE)</li><li>• <b>N/A</b> - not possible to determine at the moment</li></ul>
Connected band	Currently used frequency band. For more information on supported frequency bands, <a href="#">{{{name}}}</a> <b>Supported Frequency Bands</b> <a href="#">[click here]</a>
Bytes received	Amount of data received through the mobile interface
Bytes sent	Amount of data sent through the mobile interface
Restart Modem	Reboots the device's cellular module
Restart Connection	Restarts the mobile connection
(Re)register	Registers to the mobile network
Refresh	Refreshes all information fields in the page