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## **Certification Exhibit**

**FCC ID: QZC-GNIC**

**FCC Rule Part: 47 CFR Part 2.1091**

**TÜV SÜD Project Number: 72154502**

Manufacturer: Elster Solutions LLC  
Model: Global Network Interface Card (GNIC)

## **RF Exposure**

**General Information:**

Applicant: Elster Solutions LLC  
 Device Category: Mobile  
 Environment: General Population/Uncontrolled Exposure

**Technical Information:**

Antenna Type: On-board stamped metal dipole  
 Antenna Gain: 2.1 dBi  
 Maximum Transmitter Conducted Power: 29.928 dBm, 983.56 mW  
 Maximum System EIRP: 32.028 dBm, 1595.14 mW  
 Exposure Conditions: 20 centimeters or greater

**MPE Calculation**

The Power Density (mW/cm<sup>2</sup>) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

**Table 1: MPE Calculation**

Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
902.4	29.928	0.60	983.56	2.1	1.622	20	0.317