



## **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/Cm <sup>2</sup> ) | Radio Power (mW) | Antenna Gain (dBi) | Antenna Gain (mW eq.) | Distance (cm) | Power Density (mW/cm <sup>2</sup> ) |
|--------------------------|-------------------|---|------------------|--------------------|-----------------------|---------------|-------------------------------------|
| 902.4                    | 29.928            | 0.60                                      | 983.56           | 2.1                | 1.622                 | 20            | 0.317                               |