

MOBILE-ORIGINATED (e.g. Point of Sale) via ETHERNET CARD

Set up the modem per the "Getting Started" document, including programming of the APN in section 6.11, and the Ethernet Expansion Card User Guide.

Send the following commands to the modem over the serial or USB port

AT\$ENABLEETHERNET=1	(enable Ethernet interface)
AT+CFUN=1	(restart modem)
AT\$STATICIP=IP1	(define static IP address)
AT+CFUN=1	(restart modem)
AT\$DHCP=1,IP1,N,IP2,M,L	(activate DHCP server)
AT\$BRIDGECREATE=X,Y,Z,D	(bridge to connect endpoints Y & Z)
AT\$ENDPOINT=Y,T,E	(TCP Ethernet endpoint)
AT\$ENDPOINT=Z,T,G	(TCP GPRS endpoint)
AT+CFUN=1	(restart modem)
AT\$NAT=1	(enable network address translation)

Key

IP1 - Static IP address for the local Ethernet interface
IP2 - 1st client IP address
N - Number of clients to provide addresses to
M - Subnet mask
L - Lease time in seconds
X - Bridge ID Number (1-10)
Y - Endpoint ID Number (1-49)
Z - Endpoint ID Number (1-49, different than Y)
D - Direction (2 = Bi-directional)
T - Endpoint protocol for TCP (1)
E - TCP Ethernet port number (2005)
G - TCP GPRS port number (2006)

Example

AT\$ENABLEETHERNET=1

AT+CFUN=1

AT\$STATICIP="172.16.0.1"

AT+CFUN=1

AT\$DHCPS=1,"172.16.0.1",5,"172.16.0.2","255.255.255.0",500

AT\$BRIDGECREATE=1,1,2,2

AT\$ENDPOINT=1,1,2005

AT\$ENDPOINT=2,1,2006

AT+CFUN=1

AT\$NAT=1

Removing this configuration from the modem

Send the following commands:

AT\$ENABLEETHERNET=0 (disable Ethernet interface)

AT\$STATICIP="0.0.0.0" (remove static IP address)

AT\$DHCPS=1 (disable DHCP server)

AT\$BRIDGECREATE=1 (delete Bridge 1)

AT\$ENDPOINT=1 (delete Endpoint 1)

AT\$ENDPOINT=2 (delete Endpoint 2)

AT\$NAT=0 (disable network address translation)