TECHNICAL NOTE # 902A

Re: Windows 7TM UIST II Connection through GCM II or GCM II-HD Date: February 04, 2016

INTRODUCTION

This technical note will explain how to setup and establish a network connection from a laptop or desktop computer running the Universal Installation Service Tool II (UIST II) to the GCM II or GCM II-HD. This document assumes the PC running the UIST II is installed with Windows 7 operating system.

A network cable will be required to connect from the RJ45 network port on the PC to the RJ45 network port on the GCM II or GCM II-HD. If the network port on the PC is not 1gig or higher a crossover cable will be required.

Note: make a note of all previous network settings made on the PC and/or the GCM II. This will be helpful in case the settings need to be reverted to the previous IP address, Subnet Mask, Gateway and/or DHCP mode.

GCM II CONFIGURATION

The GCM II and GCM II-HD have default settings for the Host Name, Local IP Address, Gateway Address, Network Address, Subnet Mask and DNS Address as shown in Figure 1. This can be found in Section 5.2.3.1 Networking of the GCM II manual. Ensure the DHCP box is unchecked. These setting can be customized to meet site requirements.

Seneral Ala	arm Tags Syste	m Mount	Graphics	Sound	Reporting	Management	Remote Desktop	
Networking	Date and Time	Display	Port Printe	r Port	diagnostics			
Use DHCP								
urrent IP Addr	ess:							
Host Na	me: smiGcm							
Local IP Addr	ess: 192.168.1 .2	23						
Gateway Addr	ess: 192.168.1 .1	L						
Network Addr	ess: 192.168.1 .0)						
Subnet M	ask: 255.255.255	.0						
DNS Addr	ess: 192.168.1 .1	Ļ						
							Update Ca	ince

Figure 1

PC NETWORK CONFIGURATION

1. On the PC running the UIST II go to the Control Panel and open the "Network and Sharing Center" as shown in Figure 2



Figure 2

2. Find the "Local Area Connection" as shown in Figure 3.





3. With the mouse click the "Local Area Connection" to open the "Local Area Connect Status" screen as shown in Figure 4.

📱 Local Area Connection Status	
General	
Connection	
IPv4 Connectivity:	No Internet access
IPv6 Connectivity:	No network access
Media State:	Enabled
Duration:	15 days 03:04:27
Speed:	1.0 Gbps
D <u>e</u> tails	
Activity	
Sent —	Received
Bytes: 3,766	6,648
Properties Bisable	Diagnose
	Close

Figure 4

/

4. Select "Properties" as shown in Figure 4 to open the "Local Area Connection Properties" screen as shown in Figure 5. Select the "Internet Protocol Version" then select "Properties".

🕴 Local Area Connection Properties
Networking
Connect using:
Broadcom NetXtreme 57xx Gigabit Controller
<u>C</u> onfigure
This connection uses the following items:
🗹 🏪 Client for Microsoft Networks
🗹 💂 QoS Packet Scheduler
File and Printer Sharing for Microsoft Networks
Broadcom Advanced Server Program Driver
Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv6)
✓ → Link-Laver Topology Discovery Mapper I/O Driver
✓ Link-Layer Topology Discovery Responder
Install Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default
wide area network protocol that provides communication
OK Cancel

Figure 5

5. In the "General" tab select "Use the following IP Address" as shown in Figure 6. Enter a static IP address such as 192.168.1 10. This address must be different from the GCM II IP address. The Subnet Mask must match what the GCM II has listed. The Default Gateway should be left blank.

Once the information has been entered, select "OK" on all screens to save the settings.

Internet Protocol Version 4 (TCP/IPv4)	Properties
General	
You can get IP settings assigned auton this capability. Otherwise, you need to for the appropriate IP settings.	natically if your network supports ask your network administrator
Obtain an IP address automatical	v
Use the following IP address:	
IP address:	192.168.1.10
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
Default gateway:	
Obtain DNS server address autom	natically
• Use the following DNS server add	resses:
Preferred DNS server:	· · ·
<u>A</u> lternate DNS server:	· · ·
Vaļidate settings upon exit	Ad <u>v</u> anced
	OK Cancel

Figure 6

UIST II (Versions D or earlier) SETUP

Open the UIST II "Controller Connect" tab as shown in Figure 7 (reference the UIST II manual - Versions D or earlier). Enter the IP address of the GCM II into the IP Address filed and select "Connect".

Universal Installation Service Tool	
File English (United States) - About	
Direct Connect Controller Connect Diagnostics Supported Devices	
C CM II (Serial) C GCM II (Network) IP Address 192.168.1.2 Connect	
Supported Device Address Tag	
•	•

Figure 7

UIST II (Versions E or later) SETUP

Open the UIST II "Connect" tab as shown in Figure 8 (reference the UIST II manual - Versions E or later).

Universal Installation Service Tool	
File English (United States) - About	
Connect Diagnostics Supported Devices	
Location Status Device Software Revision Address ID Tag	
	Þ
	1
Show All Devices Configure Ports	Discover Devices



Select the "Configure Ports" button to open the "Configure Device Ports" dialog box as shown in Figure 9.

	×
Enabled	Secure
~	
	ок
	Enabled

Figure 9

Select the "Add Ports" button to open the "Add Device Location" dialog box as shown in Figure 10.

Add Device Location	—
Network Address	
Port	
Secure	
	Add Location

Figure 10

In the "Network Address" field enter the IP address of the Graphic Control Module II (GCM II) or Graphic Control Module II-Heavy Duty (GCM II-HD) that the UIST II will be connected to.

In the "Port" field enter the port number that the UIST II has been assigned. The default port number for the UIST II is 50000. Figure 11 shows the "Location" and "Port" fields entered. The "Secure" function is not active at this time.

Add Device Locatio	on	X
Network Address	192.168.1.2	
Port	50000	
	Secure	
		Add Location



Once the correct information has been entered select the "Add Location" button to add the port to the "Configure Device Port" screen as shown in Figure 12. Select the "Discover Devices" button as shown in Figure 8 to populate the screen with the found devices. Double click the device to open the UIST II.

Configure Device Ports		×
Location	Enabled	Secure
COM11		
192.168.1.2:50000		
Add Port Remove Port		ок

Figure 12