

GENERAL NOTES:

1. Manged Switch installed IAW NETGEAR Document 201-18051-05
2. Cameras Installed IAW REOLINK Document 58.03.006.0074A
3. Raspberry Pi 5 installed IAW Product Brief Dated JAN 2025
4. PIS Case assembled IAW Geekworm P579 PIS Case Installation Manual
5. Coprocessor installed IAW Coral USB Accelerator datasheet version 1.4
6. Solid State Memory Installed IAW Sabrent Rocket 2230 SSD PCIe Install Manual
7. Fuse Block installed IAW Bunker Indust 4 Fuse Block document
8. Power Converter installed IAW Evbelgpbz 12 VDC to 54 VDC
9. Power Converter 12 VDC to 5 VDC installed IAW enclosed Weishuo placard
10. WiFi router installed IAW Aircove Go User Manual 7050682
11. Solid State Device installed IAW Samsung SSD Install and Migration Manual
12. SSD Enclosure assembled IAW SSK SSD 2.5" Enclosure HE-C600 User Manual
13. Yamaha Sound Bar SR-C20A User Manual
14. Television Installed IAW Samsung TV QN32Q50RA E-Manual
15. HDMI Switch installed IAW UHD-402 HDMI Switch 2 In 4 out User Manual
16. Monitor installed IAW Elecrow 10.1 Inch Touchscreen Monitor User Manual

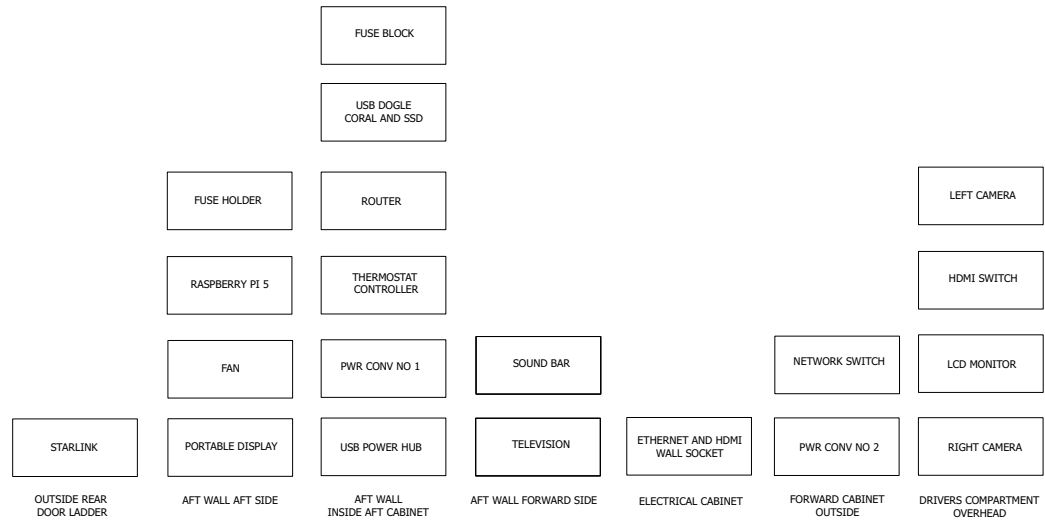


- 01 PART OF STARLINK INSTALLATION KIT
- 02 PART OF D-LINK INSTALLATION KIT
- 03 PART OF ELECROW INSTALLATION KIT
- 04 PART OF RSHTCH INSTALLATION KIT
- 05 SEE NETWORK IP ADDRESSES ON DATA SHEET
- 06 SEE RASPBERRY PI 5 CONFIGURATION ON DATA SHEET
- 07 SEE CAMERA CONFIGURATION ON DATA SHEET
- 08 SEE AIRCOVE GO CONFIGURATION ON DATA SHEET

- ETHERNET CAT 5 CABLE
- STARLINK ETHERNET CABLE
- USB C TO USB C
- USB A OR C TO USB MICRO
- USB A OR C TO USB MINI
- OEM POWER CABLE (MOD)
- USB C TO 2 WIRE POWER
- TSOLINK OPTICAL CABLE
- HDMI TO HDMI
- HDMI TO MICRO HDMI
- 12 VDC POWER
- 12 VDC GROUND
- 48 VDC GROUND
- 05 VDC GROUND

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	IR	INITIAL RELEASE	02-01-2025	GM
ALL	A	REDRAWN	04-30-2025	GM
ALL	B	REVISED POWER SUPPLIES	05-01-2025	GM
ALL	C	REVISED SSD & CORAL TO USB DOGLE	10-01-2025	GM
ALL	D	ADDED BLOCK DIAGRAM	10-14-2025	GM

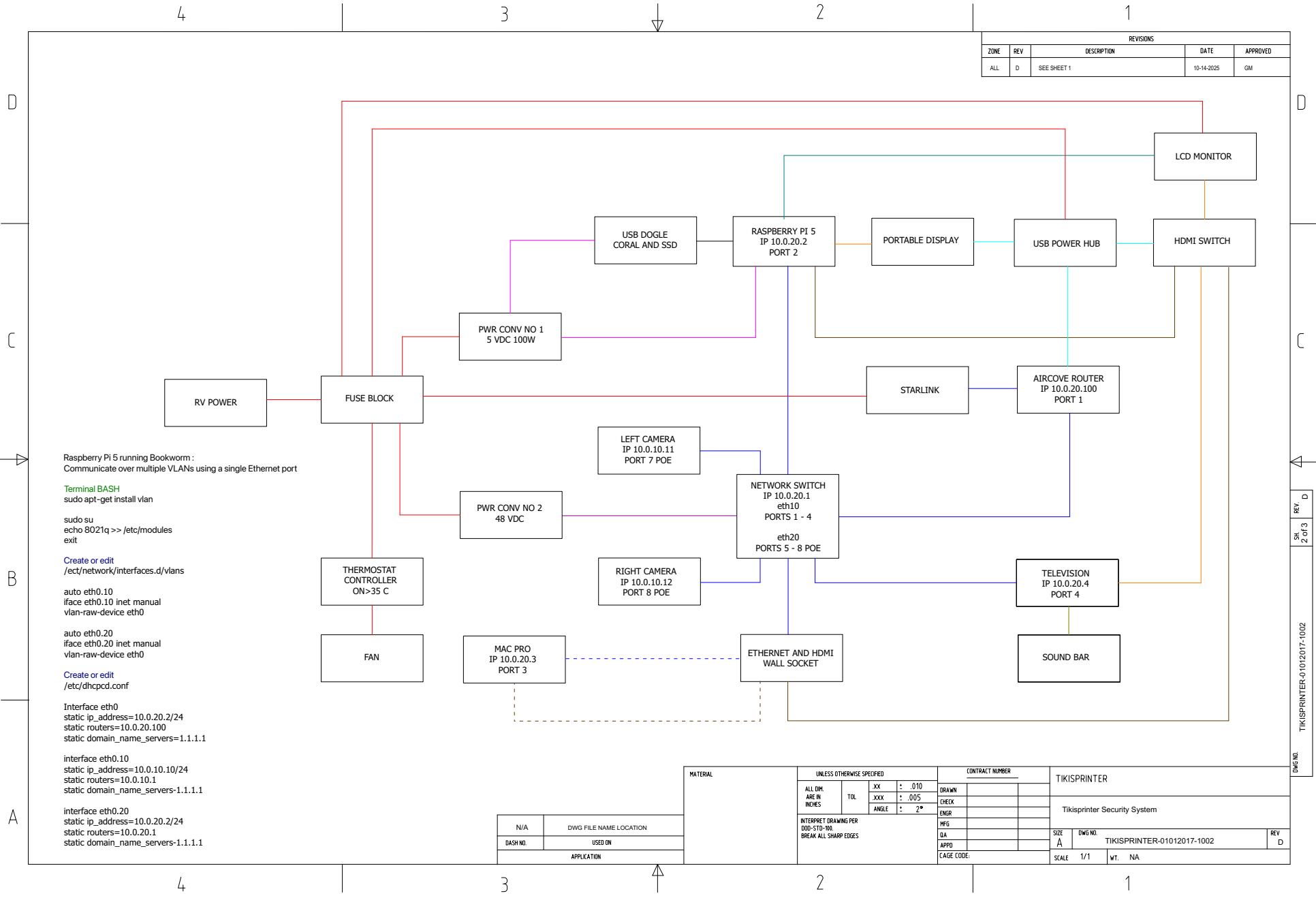
CONF / QTY	ITEM NO.	PART NUMBER	MANUFACTURER	DESCRIPTION	SOURCE/NOTES
	01 39	FSY93B12M	FONSONING	FAN	
	01 38	ZL792LUM	GRELUMA	THERMO CONTROLLER	
	01 37	HL-007342	KELINK	MINI HDMI TO HDMI	
	01 36	HCTGO7OV.P01	HAMTYSAN	7" DISPLAY	
	01 35	US701	UGREEN	USB C TO USB A ADAPTER	
	01 34	8JS-742-901-061	HELLA FUSE	30A MIDI FUSE	
	01 33	SGD-ANSF-28A	SIGANDG	FUSE HOLDER	
	01 32	8JS-728-596-811	ATC	5A BLADE FUSE	
	01 31	8JS-728-596-861	ATC	2A BLADE FUSE	
	02 30	8JS-728-596-821	ATC	10A BLADE FUSE	
	01 29	NOTE 3	D-LINK	POWER CABLE (MOD)	
	01 28	NOTE 2	STARLINK	POWER CABLE (MOD)	
	01 27	STARLINK MINI	STARLINK	SATELLITE INTERNET	
	01 26	Y2-T2405	WEISHUO	12VDC TO 5VDC 30A	
	01 25	6045	GRELUMA	4 WAY BLDE FUSE BOX	
	01 24	PVC-26	SOMELINE	RED SPLICE	
	01 23	B0DTH935T	EVBELGBPL	12VDC TO 54VDC	
	01 22	NOTE 1	ELECROW	POWER CABLE (MOD)	
	01 21	B082HWF2HW	ELECROW	10.1" TOUCHSCREEN	
	01 20	10550	UGREEN	MICRO HDMI TO HDMI	
	01 19	CB23_15FT	HOTNOW	USB C TO A MICRO	
	01 18	UHD-402	OREI	4 X 2 HDMI SWITCH	
	01 17	NPF02C00H005	CUZZWEE	4K HDMI CABLE 5M	
	01 16	QN32Q50RAFXZA	SAMSUNG	32" FLAT SCREEN	
	01 15	HL-003144	AMAZON BASIC	TOSLINK CABLE 1M	
	01 14	SR-20A	YAMAHA	SOUNDBAR	
	01 13	MZ-77Q8TOB	SAMSUNG	8TB SSD	
	01 12	60125	UGREEN	USB C TO A CABLE	
	01 11	CORAL EDGE TPU-ML	GOOGLE	COPROCESSOR	
	01 10	RASPBERRY PI5	RASPBERRY PI	PI 5 8GB	
	01 09	AVC018BTBK	BELKIN	USB C HUB 100W PD	
	01 08	MA-34	MAIXBOMR	USB C TO 2 WIRE	
	01 07	4851100	STARLINK	15M ETHERNET CABLE	
	01 06	CB09B_50CM	HOTNOW	USB C CABLE, 5M	
	01 05	RSH-ST10C-6	RSHTCH	USB POWERED HUB	
	01 04	AIRCOVE GO VPN	AIRCOVE	WIRELESS ROUTER	
	01 03	GENERIC	GENERIC	ETHERNET CAT 6 3M	
	01 02	RLC-840A	REOLINK	4K CAMARA 2-WAY AUDIO	
	01 01	GS105PEV3	NETGEAR	MANAGED POE SWITCH	



N/A	DWG FILE NAME LOCATION
DASH NO.	USED ON
APPLICATION	

MATERIAL		UNLESS OTHERWISE SPECIFIED		CONTRACT NUMBER		TIKISPRINTER	
ALL DIM. ARE IN INCHES	TOL.	.XX	: .010	DRAWN		Tikisprinter Security System	
		.XXX	: .005	CHECK			
		ANGLE	: 2°	ENGR			
INTERPRET DRAWING PER 000-STD-001. BREAK ALL SHARP EDGES				MFG		SIZE A	DWG NO. TIKISPRINTER-01012017-1002
				QA		SCALE 1/1	WT. NA
				APPD			REV C
				CAGE CODE:			

DWG NO. TIKISPRINTER-01012017-1002
REV D
SH 1 OF 3



Raspberry Pi 5 running Bookworm :
Communicate over multiple VLANs using a single Ethernet port

Terminal BASH
sudo apt-get install vlan

sudo su
echo 8021q >> /etc/modules
exit

Create or edit
/etc/network/interfaces.d/vlans

auto eth0.10
iface eth0.10 inet manual
vlan-raw-device eth0

auto eth0.20
iface eth0.20 inet manual
vlan-raw-device eth0

Create or edit
/etc/dhcpd.conf

interface eth0
static ip_address=10.0.20.2/24
static routers=10.0.20.100
static domain_name_servers=1.1.1.1

interface eth0.10
static ip_address=10.0.10.2/24
static routers=10.0.10.1
static domain_name_servers=1.1.1.1

interface eth0.20
static ip_address=10.0.20.2/24
static routers=10.0.20.1
static domain_name_servers=1.1.1.1

N/A	DWG FILE NAME LOCATION
DASH NO.	USED ON
APPLICATION	

MATERIAL		UNLESS OTHERWISE SPECIFIED		CONTRACT NUMBER		TIKISPRINTER	
ALL DIM. ARE IN INCHES	TOL.	XX XXX	: : :	010 005		DRAWN	
INTERPRET DRAWING PER ISO-STD-100 BREAK ALL SHARP EDGES		ANGLE	:	2°		CHECK	
						ENGR	
						MFG	
						QA	
						APPO	
						CAGE CODE	
						SIZE	DWG NO.
						A	TIKISPRINTER-01012017-1002
						SCALE	WT. NA
						1/1	
						REV	D

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	D	SEE SHEET 1	10-14-2025	GM

REV. D
SH. 2 of 13
DWG NO. TIKISPRINTER-01012017-1002

