

# Portable 5G Private Network Solution : Digital Resilience

June 2022

## **Pegatron Introduction**



Company Profile	Established on	Global Operation Sites	Total Number of Employees	
June 27, 2007		16	185,000	
Achievements	Listed on TWSE on	2021 Consolidated Revenue	2021 FORTUNE GLOBAL 500	
	June, 2010	US\$47.5B	#235	





CONFIDENTIAL















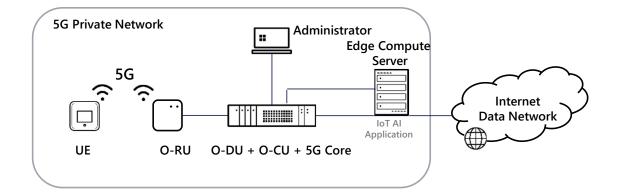
## Pegatron Portable 5G Private Network Solution : Digital Resilience

- Compliant with 3GPP and O-RAN structure by using x86 based server to compose 5G network system include 5G Core, gNB, and PTP L3 switch.
- Built-in Pegatron customized RAN software and Service Management and Orchestration system.

#### 5G Private Network - Portable



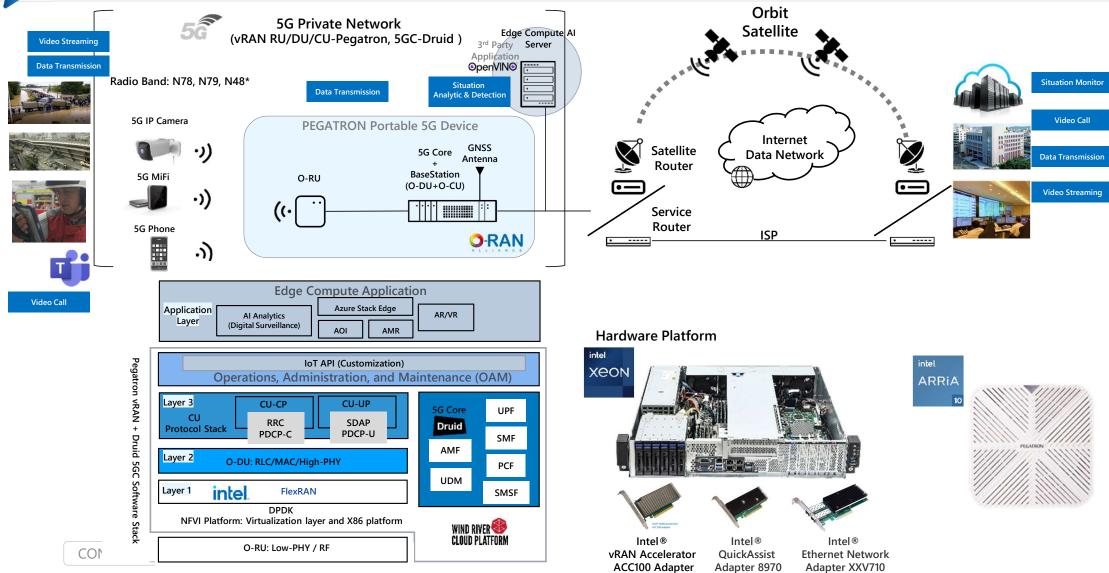




#### **Product Description**

Max. UE	32 Active (Support: 1Cell)	
Band	FR1: N78, N79, N48*	
Ant. MIMO	4T4R, DL 4 Layers, UL 2 Layers	
Profile	■ DL Centric 7:3, 4:1 ■ UL Centric 2:3	
GPS Grand Master	<ul><li>■ 1588v2 PTP protocol support</li><li>■ PTP to sync-E and sync-E to PTP conversion</li></ul>	
OAM	System Configuration     UE management including list     usage and QoS profile     Network slicing management     Northbound interface for higher level management	
5G Core (Option)	Druid Raemis 5GC™	

## PEGATRON Portable 5G Private Network Solution with Edge Compute- Architecture PEG∧TRON **5G** ►





#### PEGATRON Portable 5G Private Network Solution – Use Case Value Chain

PEGATRON **5G** ▶

#### **5G Digital Resilience**



Integrate 5G Private Network and orbital satellite communication to support first-line responder and public safety anytime and anywhere in Hsinchu City.

### PEGATRON Wave IN

vRAN Solution (O-RU+O-DU+O-DU)



**System Integration** 



Affirmed 5G Core

Azure- SD-WAN & Teams



Customer

Orbit Satellite

SES

#### **Pain Points**

- Large-scale power, telecommunications, and sub-marine cable interruptions caused by devastating disasters or regional
  - Firstline responders can not communicate or report the status to command center Traditional satellite phone can only provide voice communication, but not able to support video conversation, data transfer, real-time video transmission, and multiperson instant meeting

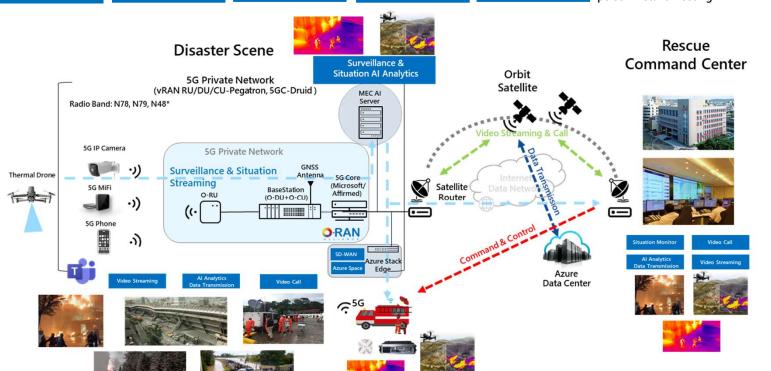
#### **Solutions**

Integrate 5G ORAN base station and orbit satellite communication to provide

- **Emergency contact for devastating** disasters and reginal conflicts
- Non-interruption for IoT data link and disaster relief communications
- Disaster response for semiconductor global core supply chain in Taiwan
- Urgent messages delivery for government and national security

#### **Pegatron Solution Value**

- All-in-One Portable 5G Private Network Solution.
- Easy setup, On demand 5G Private **Network Anywhere.**
- Configurable profile to adjust UL/DL throughput depend on different use case.
- Build-in 5G Core Network, also can use other 5G core system. (IoT completed w/ Ericsson, Nokia, Cisco, Affirmed)
- Provide Northbound interface for higher level system integration.
- Backhaul connection can be integration with Orbital Satellite.



#### Asia-

Taiwan / Japan / Vietnam / Indonesia / India

#### Americas-

United States / Canada

#### **Europe-**

Czech / Germany / United Kingdom

#### Pacific-

Australia

#### Website

Pegatron 5G Website

#### Exhibition-

MWC/ CES / Computex / Smart City / Intel Vision Event ...

#### **Press Release**

Digital Magazine / Digitimes ...

#### **Roadshow & Global Event**

Quarterly base by BD manager

## Region

## Sales Channel

## Target Market & Application

Telecom/Enterprise /Education/Industries /Transportation/Government...

Emergency/Smart Factory
/AI Inspection/ Health Care
/ Surveillance AI/ Situation
Monitoring/ AR,VR
/Telecommunications...

#### **Promotion**

Customer Service

#### Direct Sale-

Worldwide Sales Office: Taiwan / Japan / Vietnam / Indonesia / India / United States / Czech...

#### System Integration Partner-

Hwacom / Wave-In / Glory Tek...

#### Solution Partner-

Intel / Microsoft / ...

#### Marketplace-

Intel / Microsoft / TCA / TAITRA ...

#### Region Sales and FAE for Tech. Support-

Worldwide FAE Center: Taiwan / Japan / Vietnam / Indonesia / India / United States / Czech

## Website & General Contact email box pegatron5g@pegatroncorp.com

CONFIDENTIAL

## **Twelve Months Forecast for Intel Products**

Intel Pr	roducts	<b>Projected Quantity</b>	Comments
Intel® Xeon SP Gold		40	6230R
Intel® QuickAssist Adapter		20	8970
10gbe Intel® ethernet network a	daptors	40	XXV710/E810
Intel® vRAN Accelerator ACC100	Adapter	20	ACC100
Intel® FlexRAN		20	
Intel® DPDK Data Plane Devel acceleration)	lopment Kit (for packet	20	

Total Intel Rev\$ \$120K USD

Application	Count
School Lab / Demo / POB Field Test	5
Smart Transportation	5
Emergency	10
TOTAL	20

## **Thanks**









5G User Equipment