



**TOD™**

**BCM DELIVERS  
TISSUE COMPUTING**

***"THE AGE OF TISSUE COMPUTING HAS ARRIVED™"***



# What is Tissue Computing?

## Next Leap Forward in Computing

Vacuum Tubes



**Silicon Chips** (Intel/IBM/Others)



**Live Tissue** (BCM)

# Why Tissue Computing?

## Live Tissue Processing Speed and Availability

<u>Type</u>	<u>Speed Increase (*)</u>	<u>Availability</u>
Neuron Processing	1,000 Times	Late 2022 9 Models
Quantum Processing	One Million Times	Developing Mid 2023 (Est.)

(\*) Over classic silicon chip computers addressing selective applications

# How Does Tissue Computing (TC) Work?

- ✓ Live Tissue Disks Embedded with Millions of Neurons (Nerve Cells)
- ✓ Disk Linked with Tissue Cords Embedded with Neurons
- ✓ User Controlled and Managed with Digital Computer - PC

# What Does a TC Disk Look Like?



Single TC Disk in a Petrie Dish  
TC Disk Embedded with up to  
One Million Neurons  
Ready for Insertion into Tissue  
Computer Array

# What Does a TC Cord Look Like?

## Standard TC Cord

TC Cord Section filled with Tissue  
Embedded with Neurons



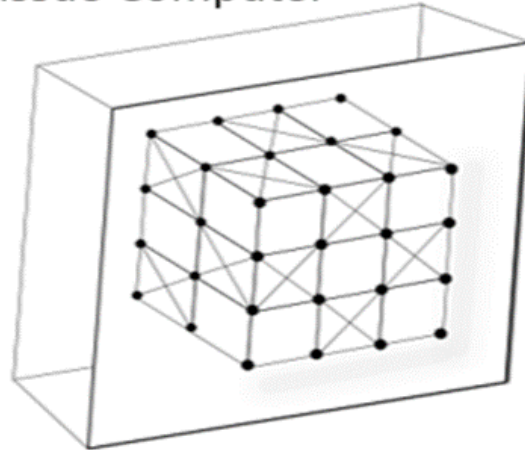
## Network Branching TC Cord

Network Branching TC Cord Section  
Internal Tissue Structure with  
Embedded Neurons Absent

# What Does a Tissue Computer Internal Structure Look Like?

## 48 TC Disk Programmable Cubic Array

Tissue Computer



3D Cubic Tissue  
Processing Array

Code:

- A single TC Disc
- A single TC Cord

Note: Exterior view only all TC disks are connected to at least 2 or more TC cords.

# What is a Tissue Operating Device (TOD™)

A family of Nine Commercially Available Tissue Computers (\*)

Model 16

Model 48

Model 64

Model 96

Model 192

Model 480

Model 1024

Model 2048

Model 5120 – offers over 5 billion neurons

(\*) Model Number Defines Number of Available Neurons



# TOD™ Model 16

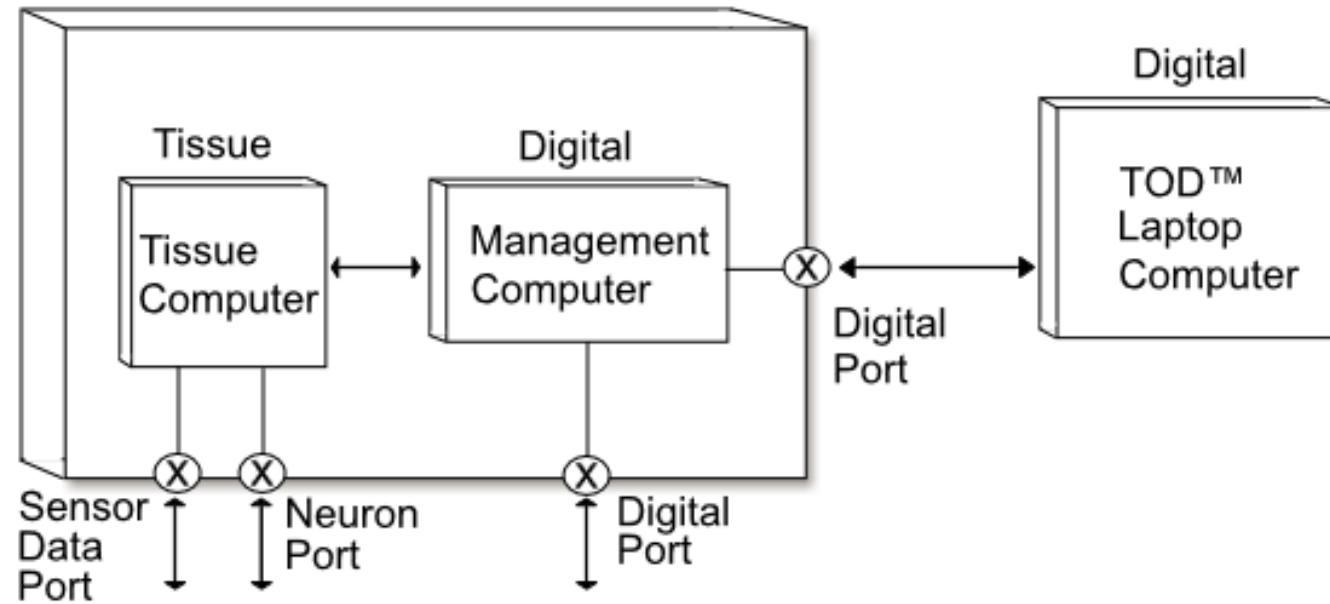
## TOD™ Models 16 Standard Desktop or Floor Tower



Model 16 Offers 16  
Million Neurons in a  
Desktop Tower

# TOD™ Components

TOD™ System Configuration



# TOD™ Availability and Ordering

Initial Release of Model 16 - Fall of 2022

All TOD™ Models Available Commencing 2023

Accepting Reservations and Orders on All TOD Models

“The Age of Tissue Computing Has Arrived™”



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**THANK YOU**

